
Office of River Protection

Tri-Party Agreement
Monthly Milestone Review Meeting
December 15, 2009

Office of River Protection

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

November 2009

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TPA Milestone Statistics

(Including target milestones)

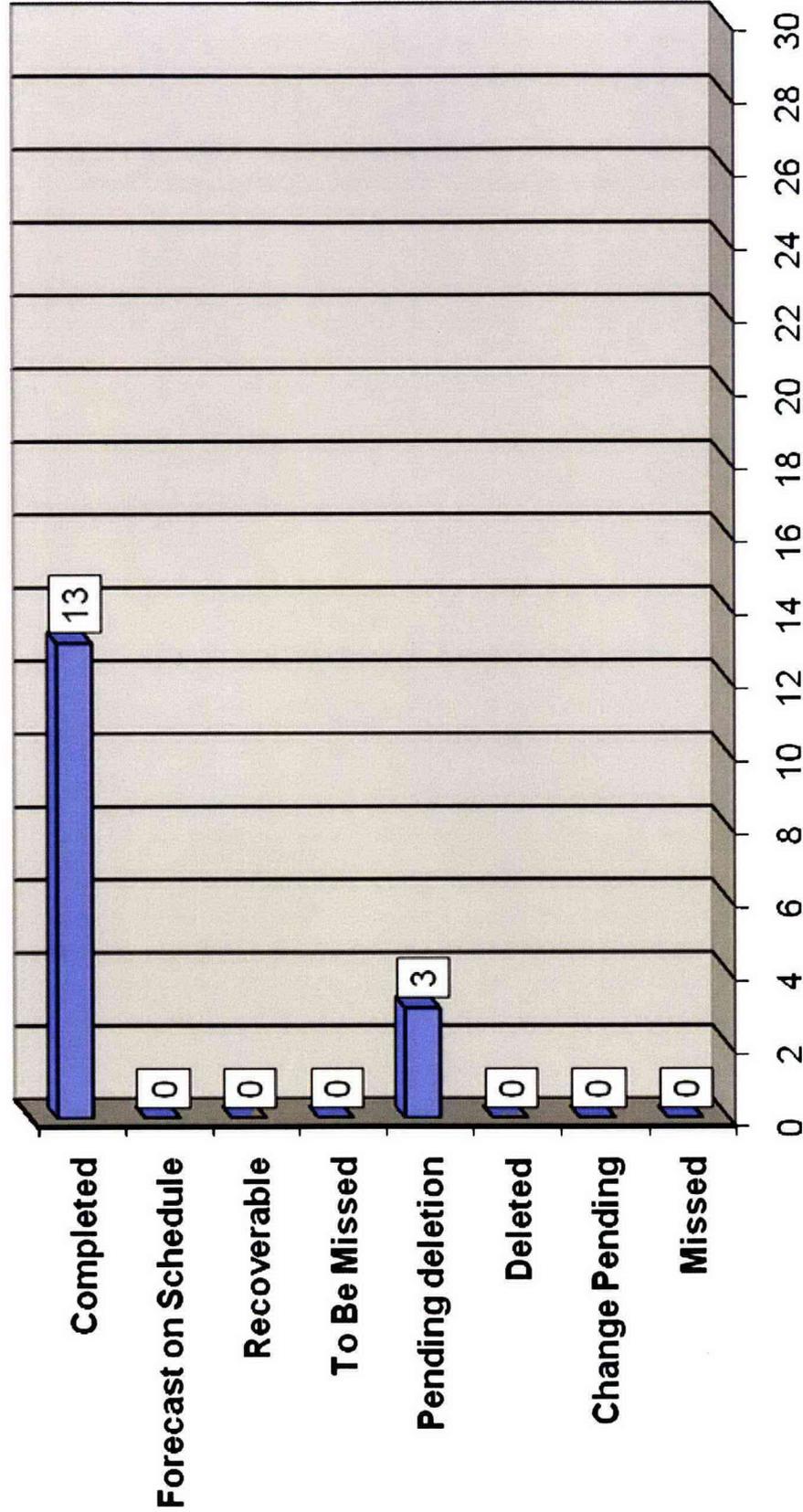
Milestone	Due Date	Total Active as of 10/01/09	Milestone Number	Due Date	Milestone Number	Due Date
M-42-00A , Provide Additional DST Capacity	TBD	1	M-42-00A	TBD		
M-45-00 , Complete Closure of all SST Farms	01/31/43	19	M-45-70 M-45-80 M-45-81 M-45-82 M-45-83 M-45-84 M-45-85 M-45-86	12/31/40 01/31/11 09/30/14 09/30/15 06/30/19 01/31/17 01/31/22 12 months after each tank retrieval	M-45-13 M-45-15 M-45-56 M-45-59 M-45-61 M-45-62 M-45-90 M-45-91 M-45-92 M-45-100 M-45-101	06/30/11 06/30/11 TBD TBD 12/31/14 06/30/15 09/30/10 09/30/10 09/30/16 60 days after milestone adoption 60 days after milestone adoption
M-47-00 , Complete Work Necessary to Provide Facilities for Management of Secondary Waste from the WTP.	When WTP Achieves Initial Plant Operation	2	M-47-00	When WTP Achieves Initial Plant Operation	M-47-06	06/30/12
M-62-00 , Complete Pretreatment Processing and Vitrification of Hanford High Level (HLW) and Low Activity (LAW) Tank Wastes	12/31/47	12	M-62-01T M-62-01U M-62-20 M-62-21 M-62-30	01/31/10 07/31/10 06/30/10 02/28/23 12 months after milestone adoption	M-62-31-T01 M-62-32-T01 M-62-33-T01 M-62-34-T01 M-62-40 M-62-45 M-62-49	TBD TBD TBD TBD 10/31/10 04/30/15 10/31/11
M-90-00 , Interim Storage and Disposal of LAW and Interim Storage of HLW	When WTP Achieves Hot Start	2	M-90-00	When WTP Achieves Hot Start		

TPA Milestone Statistics

(Including target milestones)

Milestone	Due Date	Total Active as of 10/01/09	Milestone Number	Due Date	Milestone Number	Due Date
			M-90-11	12/31/12		
Interim Stabilization Consent Decree	(D-001-00)	1	D-001-00			
RPP Consent Decree			A-1	12/31/22	A-17	12/31/19
WTP Construction and Startup: Appendix A	12/31/22	19	A-2 Interim	12/31/16	A-18 Interim	12/31/09
			A-3 Interim	06/30/18	A-19 Interim	12/31/14
			A-4 Interim	12/31/19	A-20 Interim	12/31/10
			A-5 Interim	12/31/12	A-21 Interim	12/31/12
			A-6 Interim	12/31/17		
			A-7 Interim	12/31/14		
			A-8 Interim	12/31/18		
			A-9 Interim	12/31/19		
			A-12 Interim	12/31/12		
			A-13 Interim	12/31/15		
			A-14 Interim	12/31/17		
			A-15 Interim	12/31/18		
			A-16 Interim	12/31/19		
Tank Waste Retrievals: Appendix B	9/30/22	4	B-1	09/30/14		
			B-2	09/30/14		
			B-3	12/31/17		
			B-4	09/30/22		
Total Active Milestones:		61				

FY 2006 MILESTONE PERFORMANCE



Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R26	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/05	10/31/05								
M-048-07A-A	Complete construction of the AZ-301 condensate return system and remove the AZ-151 catch tank system from service by October 31, 2005. This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-A.	10/31/05	10/24/05								
M-046-21	Complete Implementation Of Double Shell Tank Space Optimization Study Recommendations (Tank Space Options Report Document No. RPP-7702, April 12, 2001).	12/31/05	12/15/05								
M-062-01L	Submit Semi-Annual Project Compliance Report.	01/31/06	01/31/06								
M-045-02M	Submit biennial update to SST retrieval sequence document (agreement Appendix I, Section 2.1.2), double-shell tank space evaluation document and Ecology concurrence of additional tank acquisition.	3/1/06	3/13/06								

Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-048-07A-B	Completion of construction for the 241-AP-106A central pump pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary). This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-B.	3/31/06	3/30/06								
M-048-14	Submit Written Integrity Report For The Double-Shell Tank System.	3/31/06	3/31/06								
M-047-05A	Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 or AZ-102).	4/30/06	12/29/04								
M-45-55-T04	Submit to Ecology for review and comment a draft Field Investigation Report combining the results of field investigations and analysis for WMAs A-AX, C and U. As part of the Phase 2 Vadose Zone project renegotiations being developed, this target milestone scope has been included in M-45-55 Phase 1 rollup documentation due in 1/08.	4/30/06								X	

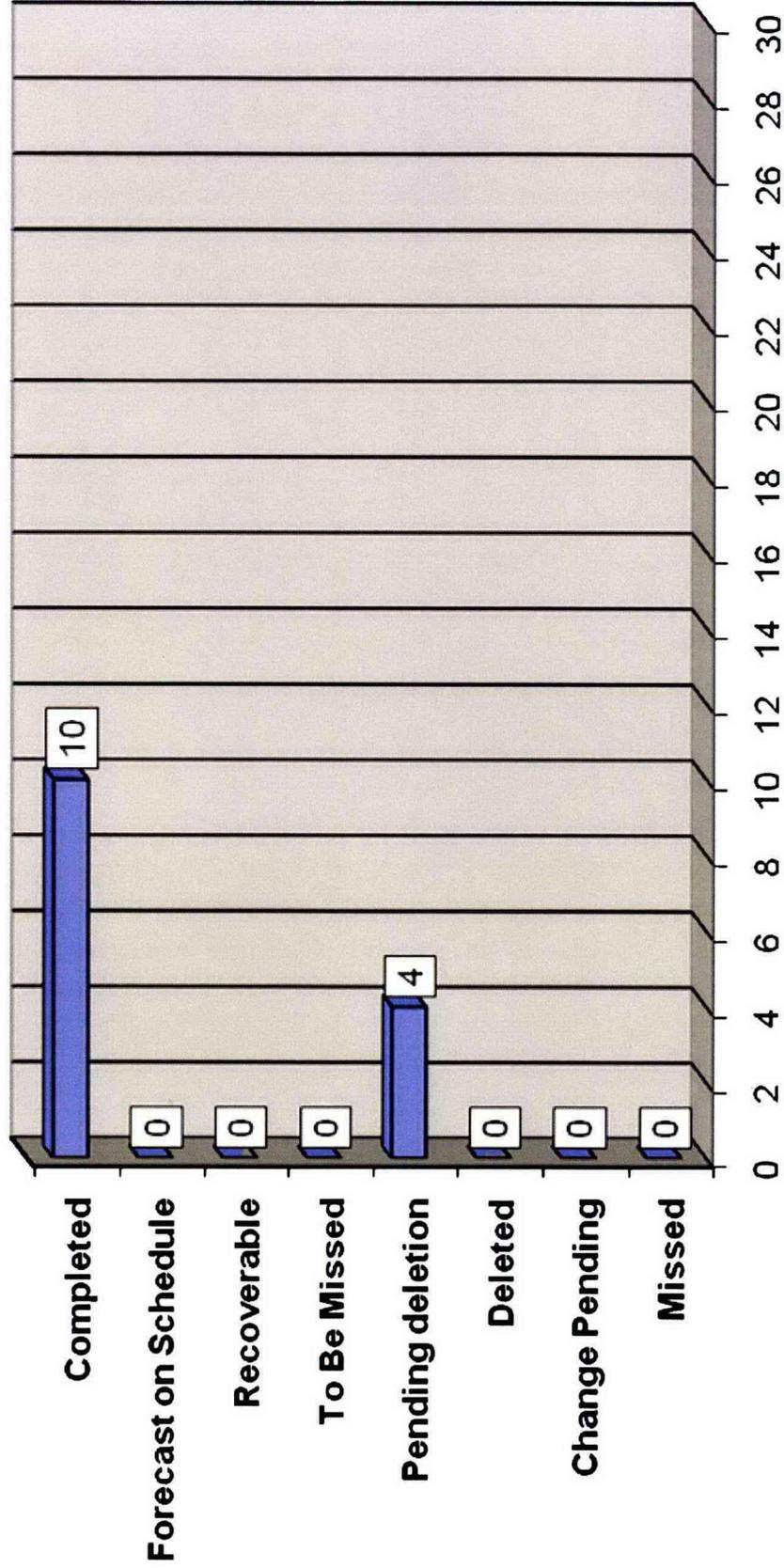
Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-048-07A	Complete construction of the AZ-301 condensate return system and pit upgrades. This includes: 1) Complete construction of the AZ-301 condensate return system and remove the AZ-151 catch tank system from service [see M 45-07A-A]; 2) Complete construction of AP-106A Central Pump upgrade [M-48-07A-B]; and 3) complete construction of SY-B Valve Pit upgrade.[see M 48-07A-C].	06/30/06	06/08/06								
M-048-07A-C	Completion of construction for the 241-SY-B valve pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary). This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-C.	06/30/06	06/08/06								
M-048-07B	The Disposition of all Double-Shell Tank Transfer System Components that will not remain in use beyond June 30, 2005.	06/30/06	6/22/06								
M-062-08	Submittal Of Hanford Tank Waste Supplemental Treatment Technologies Report, Draft Hanford Tank Waste Treatment Baseline, And Draft Negotiations Agreement In Principle (AIP).	06/30/06							X		

Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-56B	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/01/06	07/01/06								
M-062-01M	Submit Semi-Annual Project Compliance Report.	07/31/06	07/31/06								
M-045-00B	Complete specified "near term" SST waste retrieval and interim closure activities, to result in the retrieval of all tank wastes in WMA-C SSTs pursuant to the agreement criteria in milestone M-45-00.	09/30/06							X		
M-045-00C	Initiate negotiation of SST waste retrieval and closure activities and associated schedules (for the period February 07 through August 08).	09/30/06							X		

FY 2007 MILESTONE PERFORMANCE



Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R30	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/06	10/31/06								
M-062-03	Submit DOE Petition for RCRA Delisting of Vitrified HLW.	12/31/06	12/22/06								
M-045-00C-A	Ecology and DOE negotiations under this milestone shall be completed within 120 days. In the event the parties do not reach agreement within timeframe, the negotiations will be resolved as a resolution of dispute via final determination. Unless otherwise agreed by Ecology and DOE, this final determination will be issued within 150 days of initiation of negotiations.	01/28/07							X		
M-062-01N	Submit Semi-Annual Project Compliance Report.	01/31/07	01/31/07								
D-001-00-R31	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	01/31/07	01/26/07								

Fiscal Year 2007 Tri-Party Agreement Milestone Status

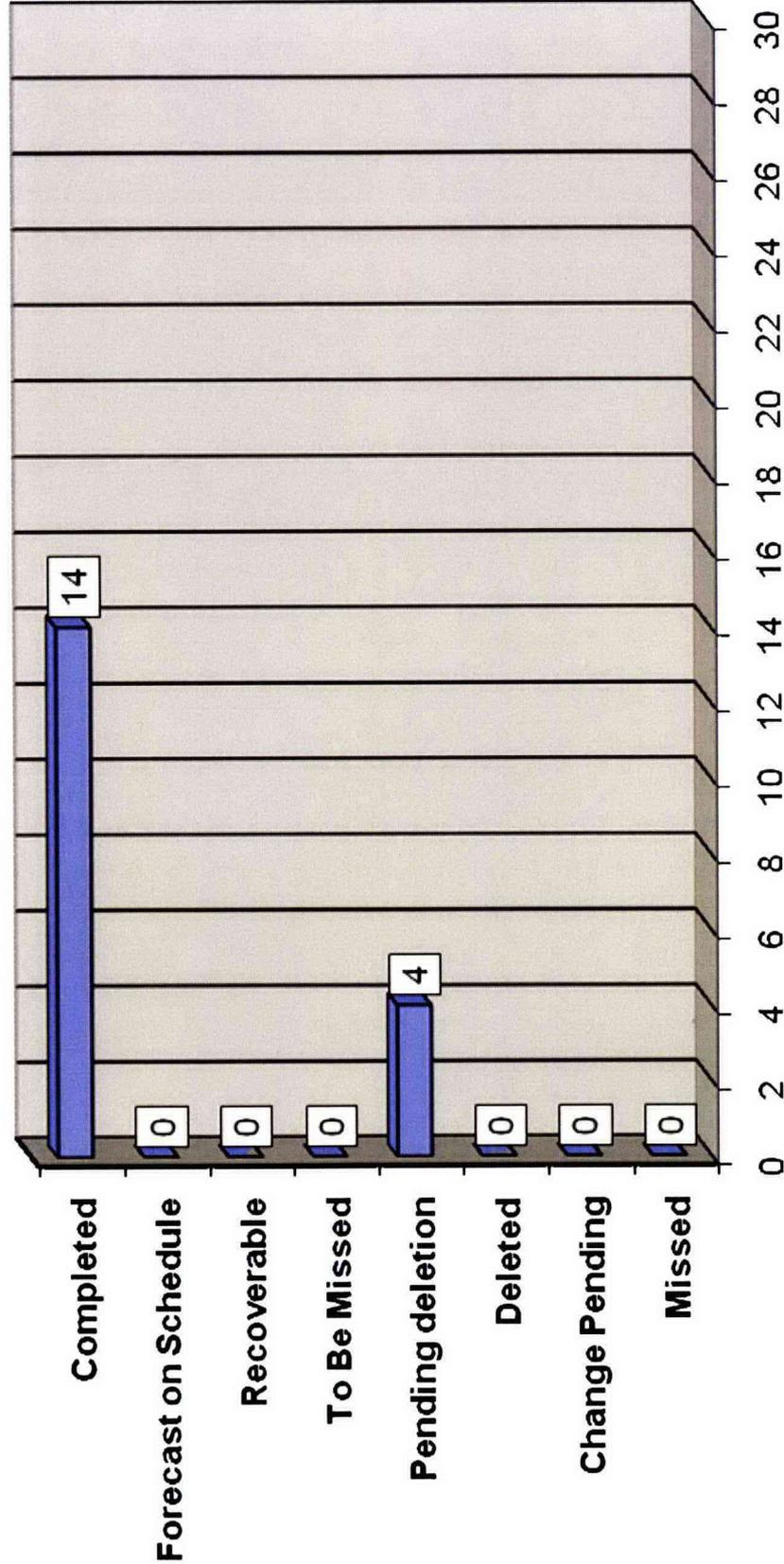
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-05A	Complete Waste Retrieval from S-102.	3/31/07							X		
D-001-00-R32	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	04/30/07	04/27/07								
M-062-11	Submit a Final Hanford Tank Waste Treatment Baseline. Following completion of negotiations required by M-62-08, DOE will modify its draft baseline as required and submit its revised, agreed-to baseline for treating all Hanford Tank Waste (HLW, LAW, and TRU) by 12/31/2028.	06/30/07							X		
M-045-56C	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/07	07/24/07								

Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R33	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	07/31/07	07/30/07								
M-062-010	Submit Semi-Annual Project Compliance Report.	07/31/07	07/31/07								
M-048-15	Submit a report to Ecology for the re-examination of six (6) DSTs by ultrasonic testing in all areas previously examined to provide comparative data from which to calculate corrosion rates in each of the six DSTs examined.	09/30/07	09/26/07								
M-045-05-T05	Initiate tank retrieval from five additional single-shell tanks.	09/30/07							X		
M-048-00	Complete Tank Integrity Assessment activities for Hanford's Double Shell Tank (DST) system.	09/30/07	09/26/07								

* Milestone has been completed by ORP; Ecology has not yet concurred.

FY 2008 MILESTONE PERFORMANCE



Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R34	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/07	10/31/07								
M-045-13-A	Submit to Ecology a Retrieval Data Report for S-112 pursuant to Agreement Appendix I.	12/31/07	12/21/07								
M-045-13-B	Remaining waste has been adequately characterized, and a risk assessment completed for S-112 residuals that remain in the tank.	12/31/07	12/21/07								
M-062-07B	Complete Assembly of LAW Vittrification Facility melter #1 and complete move of #1 melter into the HLW Vittrification Facility	12/31/07							X		
M-062-01P	Submit Semi-Annual Project Compliance Report.	01/31/08	01/31/08								
M-045-55	Submit to Ecology a Phase 1 RFI report integrating results of data gathering activities and evaluations for all SST WMAs.	01/31/08	01/30/08								
D-001-00-R35	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	01/31/08	01/31/08								

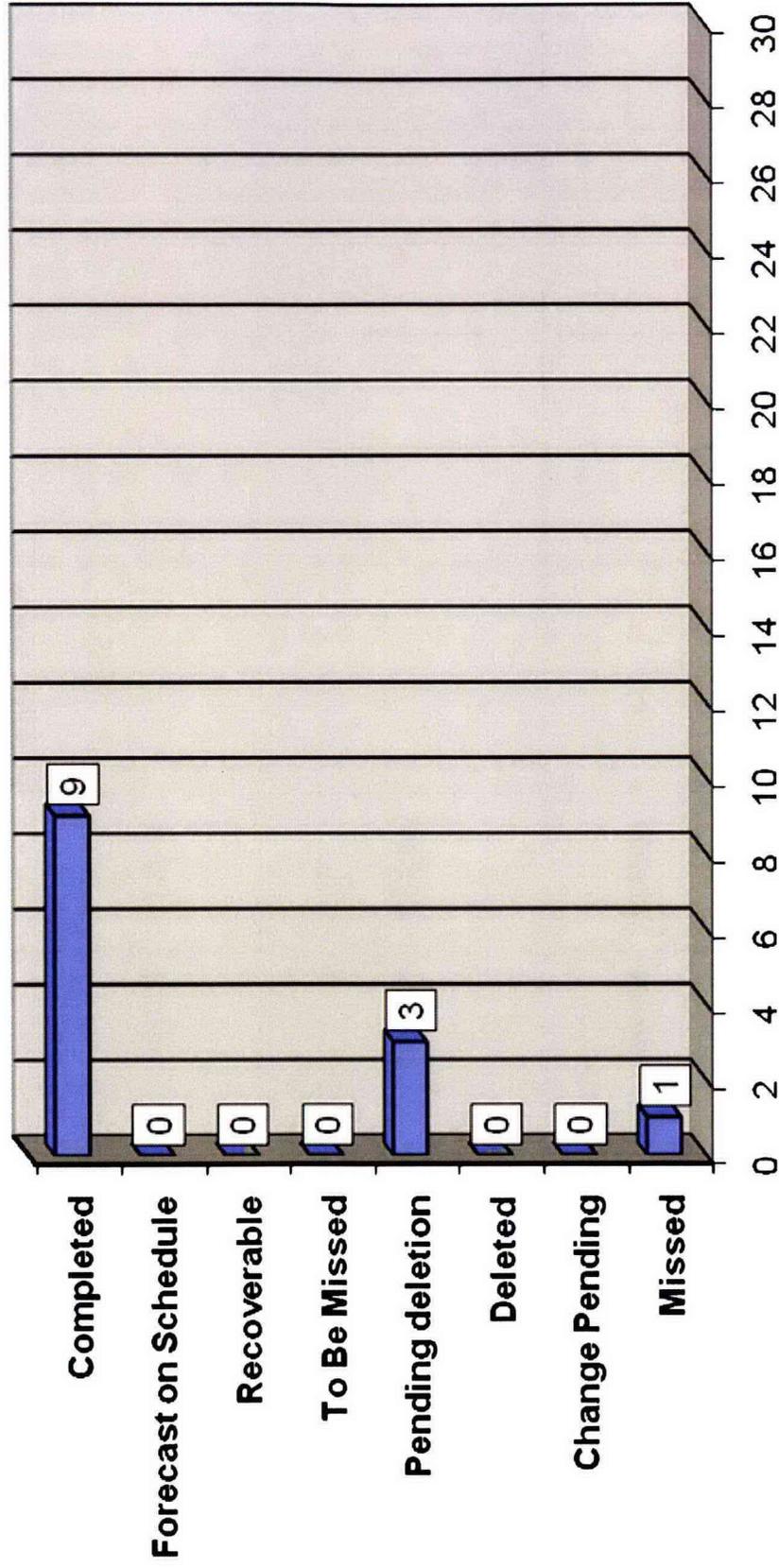
Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-00D	Initiate negotiations of SST waste retrieval and closure for 2008-2013.	01/31/08							X		
M-045-02N	Submit Biennial Update.	03/01/08	02/29/08								
M-045-02N-A	Three Parties shall meet to establish new milestones within 60 days, if required, for acquisition of additional tanks.	06/02/08	01/22/09								
D-001-00-R36	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	04/30/08	04/30/08								
M-045-00D-A	Negotiations shall be complete within 150 days.	06/29/08							X		
M-045-56D	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/08	07/22/08								
D-001-00-R37	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	07/31/08	07/31/08								

Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-062-01Q	Submit Semi-Annual Project Compliance Report.	07/31/08	07/30/08								
M-090-10	Ready to accept placement of ILAW in ILAW Disposal Facility.	08/31/08	02/13/07								
M-45-05-T06	Initiate tank retrieval from five additional SSTs.	09/30/08							X		
M-045-XX	Remove pumpable liquid from Catch Tank S-302	9/30/08	9/30/08								

FY 2009 MILESTONE PERFORMANCE



Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R38	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/08	10/28/08								
M-045-58	Submit to Ecology for Review and Approval as an Agreement Primary Document Phase 2 Master Work Plan that describes the proposed approach for the completion of Corrective Action to meet final closure requirements in the Waste Management Areas as described in Appendix I, Section 2.3	12/31/08	12/18/08								
M-045-60	Submit to Ecology for review and approval as an agreement primary document, DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C.	12/31/08	12/18/08								
M-062-01R	Submit Semi-Annual Project Compliance Report	01/31/09	01/30/09								

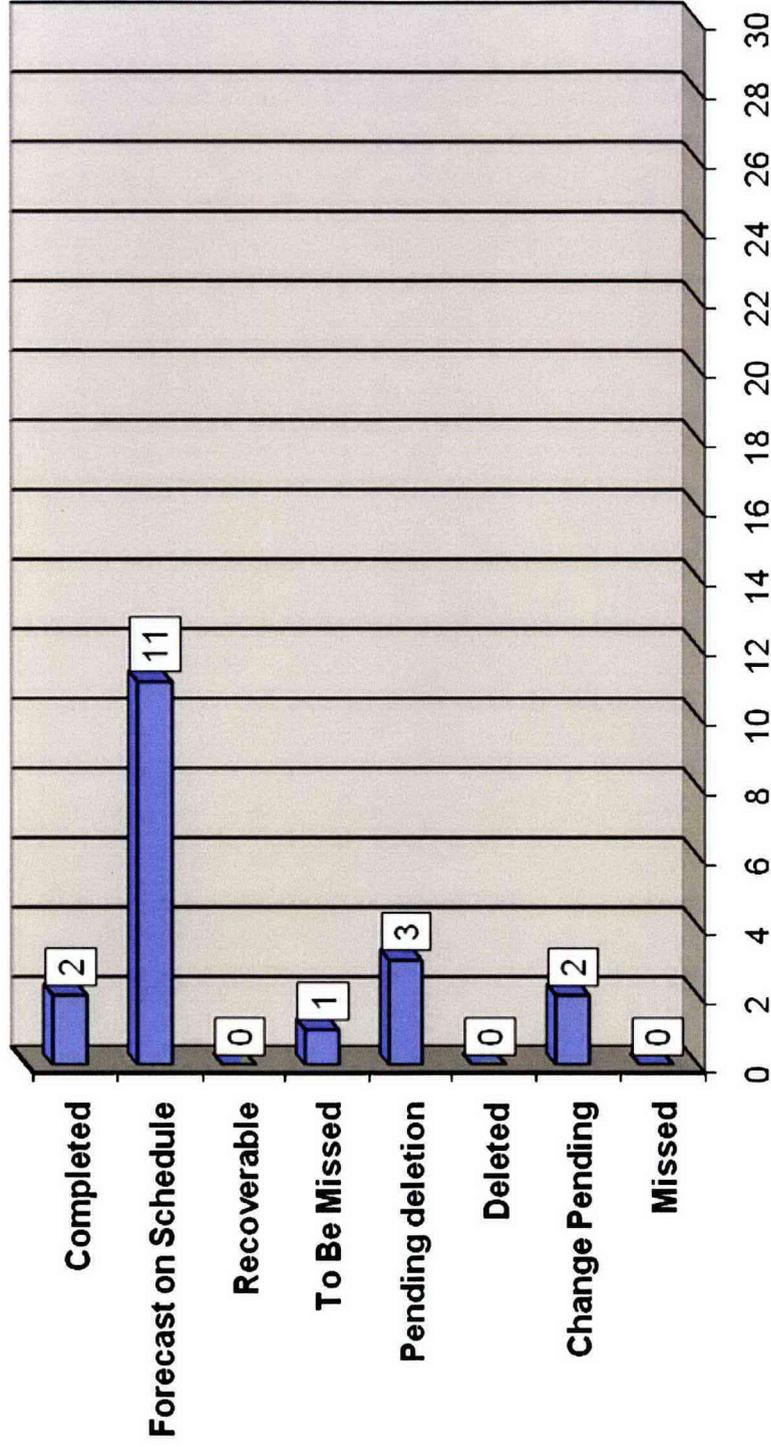
Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R39	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	01/31/09	01/30/09								
M-062-09	Start Cold Commissioning – Waste Treatment Plant	02/28/09							X		
M-47-03A	Complete startup/turnover for waste retrieval mobilization systems for selected initial tank high-level waste feed tank	03/31/09							X		
D-001-00-R40	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	04/30/09	04/29/09								
M-045-56E	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/09	07/21/09								

Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R41	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	07/31/09	07/31/09								
M-062-01S	Submit Semi-Annual Project Compliance Report	07/31/09	07/31/09								
M-045-05-T07	Initiate tank retrieval from 7 additional SSTs	09/30/09						X	X		

FY 2010 MILESTONE PERFORMANCE



Fiscal Year 2010 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00R-42 (existing)	Quarterly Report	10/31/09	10/28/09								
D-001-00R-43 (existing)	Quarterly Report	01/31/09		X							
D-001-00R-44 (existing)	Quarterly Report	04/30/10		X							
D-001-00R-45 (existing)	Quarterly Report	07/31/10		X							
M-45-02O (existing)	Biennial Update to SST Waste Retrieval Sequence	03/01/10							X		
M-45-02O-A (existing)	New SST milestones within 60 days	04/30/10							X		
M-45-05-T08 (existing)	Initiate Tank Retrieval from 8 Additional SSTs	09/30/10							X		
M-45-56F (existing)	Ecology and DOE agree, at a minimum, to meet yearly (by July or budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/10		X							
M-62-01T (existing)	Submit Semi-Annual Project Compliance Report	01/31/10		X							
M-62-01U (existing)	Submit Semi-Annual Project Compliance Report	07/31/10		X							
M-47-06 (existing)	Complete Negotiation of Agreement Requirements-Treatment Complex	06/30/10									X
M-90-11 (existing)	Complete Canister Storage Facility Construction	08/31/10									X
M-45-90 (CR)	Complete Interim Barrier Demonstration for the T-106 Interim Barrier	09/30/10							X		
M-45-91	Establish a panel and provide a	09/30/10		X							

Fiscal Year 2010 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
(CR)	report on SST Integrity Assurance Review										
M-45-100 (CR)	Submit to Ecology as an Agreement Primary Document a Catch Tank "assumed leak" response plan.	60 days after milestone adoption		X							
M-45-101 (CR)	Submit report on all Catch Tanks and associated pipelines that are identified in SST System Part A	60 days after milestone adoption		X							
M-62-20 (CR)	Close all 28 issues identified in <i>Comprehensive Review of Hanford Waste Treatment Plant Flowsheet and Throughput Assessment</i> , issued March 2006.	06/30/10		X							
A-18 Interim (CD)	Complete Structural Steel Erection Below Elevation 56' in PT Facility	12/31/09	7/23/09								

CR – Change Request**CD – Consent Decree**

Tank Farm Project Executive Summary

October Reporting

General

The earned value analysis is a comparison of cost and schedule performance to a 5 year baseline Performance Measurement Baseline (NTB). The earned value analysis is not intended to be a measurement of performance against existing Tri-Party Agreement Milestones.

The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting.

The following information is a summary of cumulative-to -date earned value performance.

PROJECT BASELINE PERFORMANCE STATUS

WRPS October Project Performance - (\$k)								
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC
CM	24,992.4	20,677.3	19,800.8	(4,315.1)	876.5	0.83	1.04	
CTD	311,732.0	301,976.1	281,468.3	(9,755.9)	20,507.8	0.97	1.07	2,061,543.0
Red shaded cells indicates any SPI/CPI less than .90; Green shaded cells indicate any SPI/CPI between .90 and .99; and Blue shaded indicates any SPI/CPI greater than or equal to 1.								

The Current Month (CM) Schedule Variance (SV) was -\$4,315K with a Schedule Performance Index (SPI) of 0.83; the CM Cost Variance (CV) was \$877K with a Cost Performance Index (CPI) of 1.04. The Cumulative to Date (CTD) SV was -\$9,756K with an SPI of 0.97; the CTD CV was \$20,508K with a CPI of 1.07.

The primary contributors to the unfavorable CTD SV of (\$9,756k) is driven by:

- *Retrieval and Closure* - Delays in the C-104 Retrieval due to the AN-101 Hot Oat Acceptance Testing. Delays in initiating the development of High Resolution Resistivity/Leak Detection Monitoring equipment software and procedures and delays in the C Farm Facility enhancement. Interim Barrier long lead time of direct push materials and needing required Ground Penetrating Radar data in TY Barrier. Long lead time for radiological instrument upgrades.

- *Recovery Act* – Deferral of Cathodic Protection Upgrades and delays in issuing Statements of work for architecture and engineering support. Engineering Change Notice delays to replace the valve funnels for AP-02A and AP-02D and redesign of the jumpers for AN and AP Farm.
- *Business Service – Facility Property Management*, is related to delays in awarding and procuring items for the 2704HV mobile office project.
- *Tank Farm Projects* – Re-sequencing work scope to support C-108 Grab Samples and the AN-106 Caustic Addition. Field work delays for the DST Valve Assembly AW-B created by the 242-AEvaporator Campaign completing later than anticipated; Cathodic Protection Upgrades being delayed due to the late completion of the annual Cathodic Protection System adjustments by Base Operations; and farm outages drawing critical resources.

The primary contributors to the favorable CTD CV of \$20,508K are:

- *Business Services* due to Business and Occupation (B&O) tax being eliminated due to the high technology credit; lower than planned cost for materials; cost reductions from buying printers and plotters from Yucca Mountain and the transfer of teamsters of MSA contract.
- *Recovery Act* due to lower than anticipated allocation of applicable G&A/COP costs than planned. Efficiencies captured during the Vent Reliability Study which found the AN Exhausters evaluation bounds all the HVAC system, and efficiently resolving National Electric Code issues in SY Farm. Project Management costs had lower rates than initially estimated. Cost transfers to the Savannah River National Labs for the Bench Scale demonstration. Efficiencies achieved in the preparation of the documentation for SST Obsolete Equipment and Electrical Utilities and Design Services were awarded for less than planned.
- *Tank Farm Projects* due to subcontractor efficiencies achieved by designing and fabricating similar probes with the same functionality and installing them at the same time due to close proximity. Labor efficiencies during field activities and fewer shipments supporting Base Operations being sent to off-site facilities versus an increase in shipment supporting the 222-S Laboratory.

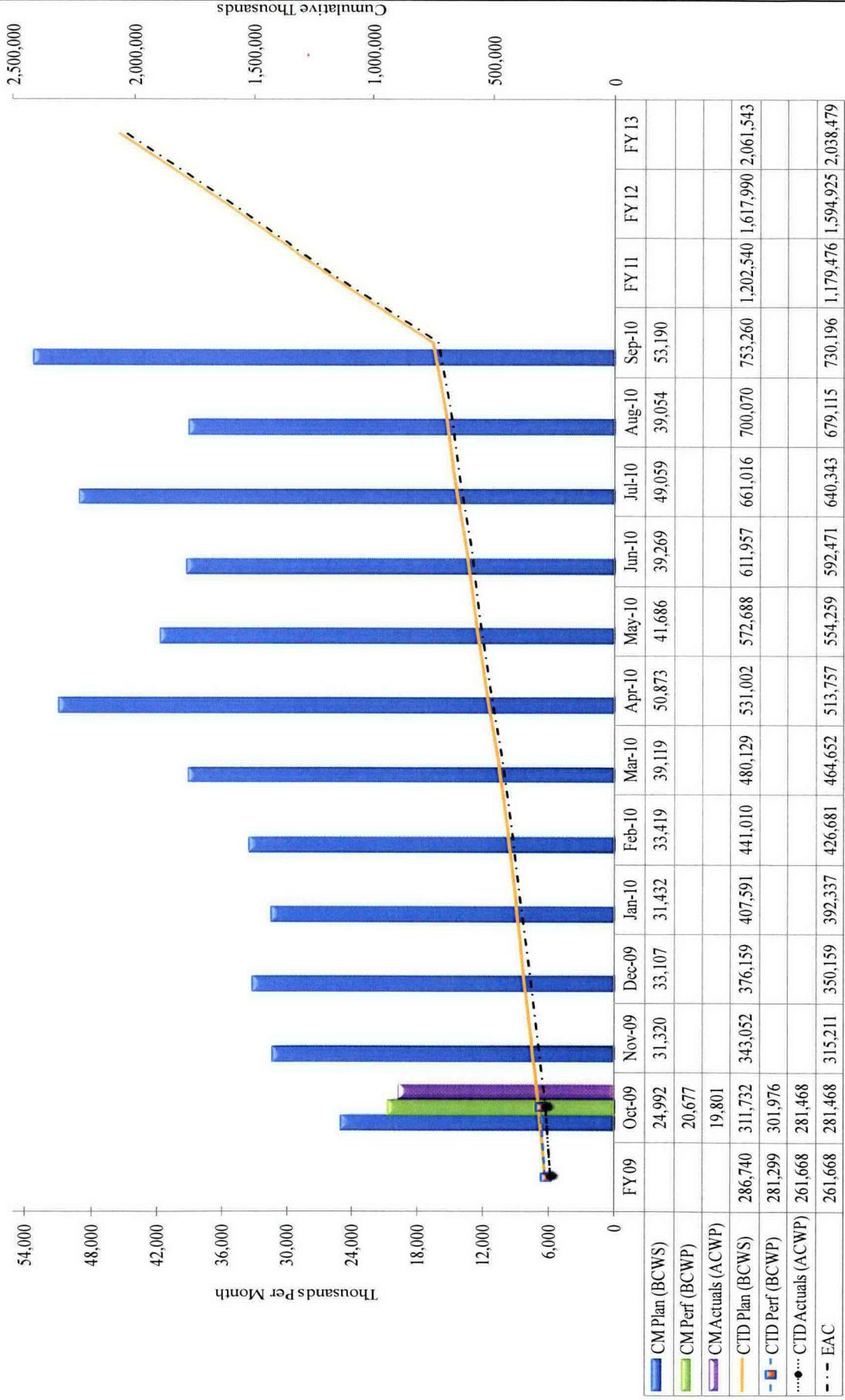
CONTRACT TO-DATE PERFORMANCE MEASUREMENT - 10/2008 - 10/2009

BY WORK BREAKDOWN STRUCTURE

Dollars in Thousands

WBS	TITLE	Cumulative Contract-To-Date			Variance			CV%	Budget at Completion (BAC)
		Budgeted Cost	Work Scheduled	Work Performed	Actual Cost Work Performed	Schedule	SV%		
5.1	BASE OPERATIONS								
5.1.1	Base Operations	80,259.7	76,425.9	77,550.8	(1,833.8)	-2.3%	875.1	1.1%	405,627.3
5.1.2	DST Space Management	6,261.3	5,794.3	8,058.6	(467.0)	-7.5%	-2,264.3	-36.2%	41,413.2
5.1.3	TOC Facility Operations	24,213.6	24,149.6	22,543.3	(64.2)	-0.3%	1,606.3	6.6%	148,432.6
5.1.4	Tank Farm Upgrades	12,023.7	10,077.8	6,685.6	(1,945.9)	-16.2%	3,392.0	28.2%	103,335.0
5.1.5	Project Support	104,864.6	103,428.9	88,406.7	(1,435.7)	-1.4%	15,022.2	14.3%	517,388.0
	TOTAL	227,623.1	221,876.5	203,245.2	(5,746.6)	-2.5%	18,631.3	8.2%	1,216,146.1
5.2	RETRIEVE AND CLOSE SSTs								
5.2.1	Retrieval/Closure Program	35,307.2	34,128.4	31,269.3	(1,180.8)	-3.3%	2,857.1	8.1%	159,683.7
5.2.2	SST Retrieval East Area	24,826.5	22,597.5	28,136.6	(2,229.0)	-9.0%	-5,539.1	-22.3%	205,309.5
5.2.3	SST Retrieval West Area	729.2	752.3	619.7	23.1	3.2%	132.6	18.2%	3,338.8
5.2.4	Closure Program	1,504.2	1,507.6	1,157.3	3.4	0.2%	350.3	23.3%	8,964.9
5.2.5	SST Closure	777.9	794.2	364.4	16.3	2.1%	409.8	52.7%	23,181.9
	TOTAL	63,145.0	59,778.0	61,567.3	(3,367.0)	-5.3%	-1,789.3	-2.8%	400,478.8
5.3	WFD/TREATMENT PLNG/DST RETRIEVAL/CLOSURE								
5.3.1	WTP Feed Delivery Program	11,097.3	10,983.2	8,922.3	(114.1)	-1.0%	2,060.9	16.6%	311,732.0
5.3.2	Construct DST Retrieval Systems	3,054.6	3,111.2	2,680.2	56.6	1.9%	231.0	7.6%	102,254.4
5.3.3	RA - Transfer System Mod Project	508.5	593.9	473.4	85.4	16.8%	120.5	23.7%	20,732.2
5.3.6	Immobilization Program	1,452.3	1,367.3	1,110.6	(85.0)	-5.9%	256.7	17.7%	55,065.2
5.3.7	WTP Operational Readiness	1,564.0	1,413.4	1,191.7	(150.6)	-9.6%	221.7	14.2%	17,280.4
5.3.8	East Area Waste Receiving Facility	229.6	53.5	1.2	(176.1)	-76.7%	52.3	22.8%	490.8
5.3.9	Tank Waste Pretreatment Project	279.5	239.3	205.6	(40.2)	-14.4%	33.7	12.1%	30,836.3
5.3.10	Secondary Waste Treatment/ETP	1,533.1	1,634.2	1,216.9	101.1	6.6%	417.3	27.2%	37,291.1
5.3.11	Next Generation Projects	1,083.1	878.5	639.7	(204.6)	-18.9%	238.8	22.0%	51,784.5
	TOTAL	20,802.0	20,274.5	16,641.6	(3,527.5)	-17.5%	3,632.9	17.5%	407,965.0
5.4	SUPPLEMENTAL TREATMENT								
5.4.1	Supplemental Treatment	161.9	47.0	14.4	(114.9)	-71.0%	32.6	20.1%	23,500.7
5.5									
5.5.2	Waste Treatment Facility	0.0	0.0	0.0	0.0	0.0%	0.0	0.0%	13,452.0
TFC TOTAL		311,732.0	301,976.0	281,468.5	(9,756.0)	-3.1%	20,507.5	6.6%	2,061,542.80

WRPS Cumulative-to-Date Performance (\$k) NTB (FY 09 - FY 13)



Milestone M-45,-50,-60 Single-Shell Tank Corrective Action

I. Near-Term Deliverables:

- **M45-45-55, Submit to Ecology for Review and Approval as an Agreement primary document a Phase 1 RFI Report**
Due: 1/31/08
Status: RFI in primary document revision process. DOE revised RFI, based on Ecology comments and resubmitted to Ecology on 10/07/09
- **M-45-56F, Complete Implementation of Agreed to Interim Measures**
Due: 07/31/09
Status: Complete. ORP and Ecology met on July 21, 2009 to discuss completed FY2008 interim measures:
Future interim measures were discussed.
- **M45-45-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan**
Due: 12/31/08
Status: Master Work Plan is in the Primary document revision process. DOE provided comment resolutions to Ecology on 10/13/09
- **M-45-60, Submit to Ecology for review and approval as an Agreement primary document DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C**
Due: 12/31/08
Status: Complete.
- **M-45-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C**
Due: 12/31/10
Status: At Risk. See issues below.
- **M-45-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Implementation Work Plan for WMA C**
Due: 7/31/12
Status: At Risk. See issues below.

II. Significant Accomplishments:

- T-Farm interim barrier monitoring continues.
- Continued direct push characterization in C Farm per the Phase 2 RFI/CMS work plan and SAP for WMA C.
- Continued the joint process with Ecology and other regulatory agencies and stakeholders to define the inputs, approaches, assumptions and methods that will be used for development of a performance assessment for Waste Management Area C.

III. Significant Planned Actions in the Next Six Months:

- Continue direct push campaign in C Farm.
- Initiate SGE data collection at one additional UPR site in C Farm.
- Initiate well-to-well SGE survey of A and AX Farms to support evaluation of a potential future barrier site.
- Initiate additional direct push sampling in S Farm based on findings of SGE analysis of SX data, to support evaluation of a potential future barrier site.

IV. Issues

- The transmittal letter for M-45-50 (WMA C work plan and SAP) indicated that the scope of characterization activities identified in the plan could not be completed in time to support the currently scheduled dates for M-45-61 and M-45-62. (The draft consent decree has been modified to include changes to the dates for these milestones.)

Milestone M-45-00, Complete Closure of All Single-Shell Tank Farms SST Retrieval and Closure Program

I. Deliverables

- **M-45-00, Complete Closure of all Single-Shell Tank Farms**
Due: 9/30/24
Status: To Be Missed (based on current DOE Baseline planning).

- **M-45-00B, Complete Specified “Near-Term” SST Waste Retrieval and Interim Closure Activities, to Result in the Retrieval of all Tank Wastes in WMA-C SSTs Pursuant to the Agreement Criteria in Milestone M-45-00**
Due: 9/30/06 (Or as otherwise indicated within the descriptive text of this milestone.)
Status: Missed.
 - Completion of four limits of technology retrieval demonstrations:
 - Saltcake dissolution (S-112): Completed (M-45-03C).
 - Modified sluicing (C-106): Completed.
 - Vacuum retrieval (C-200s): Completed; C-203 field retrieval operations completed on March 24, 2005; C-202 retrieval completed on August 11, 2005; C-201 retrieval completed on March 23, 2006; C-204 retrieval completed on December 11, 2006.
 - Mobile retrieval (C-101, C-105, C-110 or C-111): Not completed. C-101 start of retrieval is currently projected for FY 2011. (Note: C-110 retrieval commenced using modified sluicing in compliance with a TWRWP approved by Ecology on 7/3/08. C-111 will have retrieval performed using modified sluicing in compliance with a TWRWP submitted to Ecology on 5/28/09.)

 - Implementation of full-scale leak detection monitoring and mitigation (LDMM) technologies for the first three 100-series tank retrievals following Tank S-112:
 - Tank S-102: High Resolution Resistivity System (HRR) installed; supporting retrieval operations.
 - Tank C-103: HRR demonstration complete.
 - Tank C-108: HRR installed; supporting retrieval operations.
 - Completed HRR injection tests at S-102.
 - Submitted HRR evaluation report and recommendation for further deployment.

 - Submittal of Tank Waste Retrieval Work Plans (TWRWP):
 - Tanks C-201, C-202, C-203, and C-204: Completed on April 8, 2004.
 - Two (2) 100-series tanks by July 31, 2004: Completed on July 29, 2004 (C-103 and C-109).

- Four (4) 100-series tanks by 10/31/04: Completed on October 8, 2004 (C-102, C-104, C-107, C-108, and C-112).
- Five (5) 100-series tanks by January 31, 2005: Completed on January 24, 2005 (C-101, C-105, C-110, and C-111).

- **M-45-00C, Initiate Negotiation of SST Waste Retrieval and Closure Activities and Associated Schedules (for the period February 2007 through August 2008)**
Due: 9/30/06
Status: Missed.

- **M-45-00D, Initiate Negotiation of the SST Waste Retrieval and Closure Activities (for the period September 2008 to September 2013)**
Due: 1/31/08
Status: Missed.

- **M-45-00D-A, Ecology and DOE Negotiations Shall Be Completed within 150 days.**
Due: 06/28/08
Status: Missed

- **M-45-00E, Initiate Negotiation of SST Waste Retrieval and Closure Activities for the Remainder of the SST Program**
Due: 10/31/12
Status: To Be Missed (based on current DOE Baseline planning).

- **M-45-00E-A, Ecology and DOE Negotiations Shall Be Completed within 120 Days.**
Due: 02/27/13

- **M-45-05, Retrieve Waste from all Remaining Single-Shell Tanks**
Due: 9/30/18
Status: To Be Missed (based on current DOE Baseline planning).

- **M-45-05-T05, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**
Due: 9/30/07
Status: Missed.

- **M-45-05-T06, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**
Due: 9/30/08
Status: Missed.

- **M-45-05-T07, Initiate Tank Retrieval from Seven Additional Single-Shell Tanks**
Due: 9/30/09
Status: Missed

- **M-45-05-T08, Initiate Tank Retrieval from Eight Additional Single-Shell Tanks**
Due: 9/30/10
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T09, Initiate Tank Retrieval from Ten Additional Single-Shell Tanks**
Due: 9/30/11
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T10, Initiate Tank Retrieval from 12 Additional Single-Shell Tanks**
Due: 9/30/12
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T11, Initiate Tank Retrieval from 14 Additional Single-Shell Tanks**
Due: 9/30/13
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T12, Initiate Tank Retrieval from 17 Additional Single-Shell Tanks**
Due: 9/30/14
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T13, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/15
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T14, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/16
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T15, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/17
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-06, Complete Closure of all Single-Shell Tank Farms in Accordance with Approved Closure/Post Closure Plan(s)**
Due: 9/30/24
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-06-T03, Initiate Closure Actions on a WMA Basis**
Due: 3/31/12
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-06-T04, Complete Closure Actions on one WMA**
Due: 3/31/14
Status: To Be Missed (based on current DOE Baseline planning).

II. Significant Accomplishments

- Completed AN-101 to AP-105 decant in support of C-104 sluicing.
- Continued C-108 heel sample analysis at 222S laboratory.
- Continued MARs Phase II testing at Cold Test Facility.
- Removed C-111 legacy equipment including the Vapor Temperature Probe, Radiation Area Monitors, and Motor Control Center.
- Awarded C-111 construction contract for retrieval system installation.

III. Significant Planned Activities in the Next Six Months

- Begin retrieval of C-104.
- Analyze C-108 heel.
- Complete phase II testing of MARs.
- Commence design of C-107 Waste Retrieval System (MARs deployment)
- Achieve 'interim stabilized' liquid levels on S-102. Issue interim stabilization documentation.
- Initiate design media for C-108 Hard Heel Retrieval system.

IV. Issues

- Milestones M-45-00B (retrieve all C Farm tanks), M-45-00C (initiate negotiations on SST retrievals for 2007-2008), and M-45-00D (initiate negotiations on SST retrievals for 2008-2013) were missed. TPA negotiations to address these and other milestones will be completed sometime after December 11, 2009, when public review and comment on the newly proposed Consent Decree is complete.

C-FARM RETRIEVAL SUMMARY SCHEDULE FORECASTS ^a

Tank	Final Design Drawings complete	Construction Complete	Process Control Plan Complete	Start Retrieval	Complete Retrieval	TSAP Complete	Retrieval Data Report or Appendix H to Ecology/EPA
C-101	4/1/11	3/23/12	4/8/12	5/8/12	8/11/14	7/11/14	1/13/15
C-102	9/30/11	9/20/12	10/2/12	11/2/12	8/19/14	7/19/14	4/16/15
C-103	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-104	Complete	Complete	Complete	12/14/09	4/15/12	3/15/12	12/7/12
C-105	6/28/11	6/18/12	7/1/12	8/1/12	8/19/14	7/19/14	4/8/15
C-106	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-107	6/29/10	3/25/11	4/7/11	5/7/11	1/7/13	12/7/12	8/29/13
C-108 ^c	Complete	Complete	Complete	Complete	11/9/10	10/9/10	7/8/11
C-109 ^{cd}	Complete	Complete	Complete	Complete	12/21/11	11/21/11	8/16/12
C-110	Complete	Complete	Complete	Complete	8/21/11	7/21/11	4/17/12
C-111	Complete	6/16/10	7/6/10	8/6/10	1/21/13	12/21/12	9/13/13
C-112	8/16/10	8/5/11	8/20/11	9/20/11	4/22/13	3/22/13	2/13/14
C-201	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-202	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-203	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-204	Complete	Complete	Complete	Complete	Complete	Complete	Complete

- a. Completion dates are based on the stated November month-end Integrated Mission Execution Schedule (IMES) as of 11/24/09 and the Near Term Baseline Schedule (NTBS) and are subject to change as efforts continue to identify and implement schedule efficiencies.
- c. Sluicing was performed to the limits of the sluicing system technology.
- d. Hard Heel Retrieval using MRT complete to limits of technology, not achieving less than 360 cu ft residual, awaiting future retrieval path forward.

SST RETRIEVAL SEQUENCE DOCUMENT

I. Deliverables

- **M-45-02N, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02N for further details)**
Due: 3/1/08 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: Complete.
- **M-45-02N-A, Embedded Milestone; Within 60 days of receiving the DST Space Evaluation Document, the Three Parties Shall meet to Establish New Milestones, If Required, for Acquisition of Additional Tanks**
Due: 06/02/08
Status: Complete. On May 15, 2008, Ecology transmitted comments on the M45-02N deliverable. On July 23, 2008, ORP transmitted letter 08-TF-049 to Ecology with a plan for responding to Ecology comments on and updating the Retrieval Sequence Document (RPP-21216). The revised document was submitted to Ecology on September 12, 2008, by letter 08-TF-062. Ecology approved the document on January 22, 2009, by letter 0900343.
- **M-45-02O, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02M for further details)**
Due: 3/1/10 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: To be missed. See discussion below under "Issues".
- **M-45-02O-A, 3 Parties Shall Meet To Establish New Milestones Within 60 Days**
Due: 04/30/10
Status: To be missed.
- **M-45-02P, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02M for further details)**
Due: 3/1/12 (Biennially thereafter. Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: In negotiation. See discussion below under "Issues".

- **M-45-02P-A, Embedded Milestone; Within 60 days of receiving the DST Space Evaluation Document, the Three Parties Shall meet to Establish New Milestones, If Required, for Acquisition of Additional Tanks**
Due: 4/30/12
Status: In negotiation. See discussion below under "Issues".
- **M-45-02Q, Submit Biennial Update to SST Retrieval Sequence Document**
Due: 03/01/14
Status: In negotiation. See discussion below under "Issues".
- **M-45-02Q-A, 3 Parties Shall Meet to Establish New Milestones Within 60 Days**
Due: 04/30/14
Status: In negotiation. See discussion below under "Issues".
- **M-045-02R, Submit Biennial Update to SST Retrieval Sequence Document**
Due: 03/01/16
Status: In negotiation. See discussion below under "Issues".
- **M-045-02R-A, 3 Parties Shall Meet to Establish New Milestones Within 60 Days**
Due: 04/30/16
Status: In negotiation. See discussion below under "Issues".
- **M-45-02S, Submit Biennial Update to SST Retrieval Sequence Document**
Due: 03/01/18
Status: In negotiation. See discussion below under "Issues".
- **M-45-02S-A, 3 Parties Shall Meet to Establish New Milestones Within 60 Days**
Due: 04/30/18
Status: In negotiation. See discussion below under "Issues".

II. Significant Accomplishments

None.

III. Significant Planned Activities in the Next Six Months

None.

IV. Issues

The proposed TPA milestone, M-62-40, appears to supersede and provide an expanded set of information and data when compared to the requirements of the M-45-02 series milestones. To develop and submit the M-45-02O deliverable requires the same resources that are required to develop and submit the M-62-40 deliverable. In order to meet the proposed M-62-40 milestone due date, resources must be allocated to the development of the deliverable at this time,

which would preclude the development of the M45-02O deliverable. Ecology and ORP are discussing a resolution to this issue.

TANK RETRIEVALS WITH INDIVIDUAL MILESTONES

Tank 241-C-106

I. Deliverables

- **M-45-05M-T01, Submit C-106 Waste Retrieval Results, Analysis of Residual Waste(s), and (if appropriate) Request for Exception to the Criteria Pursuant to Agreement Appendix H**
Due: 2/27/04
Status: Complete.

II. Significant Accomplishments

- None.

III. Significant Planned Activities (PA) in the Next Six Months

- Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A Request for Additional Information (RAI) was received from the NRC in February 2009. (It has been discussed with the NRC that much of the additional information requested is dependent upon development of C-Farm residual waste PA and, therefore, cannot be provided until the PA is published.)
- Continue PA workshops with Ecology, EPA, NRC, and DOE HQ focused on residual waste in C Farm tanks and pipelines following retrieval.

IV. Issues

- C-106 Closure Plan approval and SST radiological Categorical Notice of Construction (NOC) Phase 3 (closure) and a toxics categorical NOC application are pending completion of the Tank Closure and Waste Management Environmental Impact Statement (EIS) and associated Record of Decision (ROD); forecast completion for the final EIS ROD is in the Fall of 2011.

Tank 241-S-102

I. Deliverables

- **M-45-05A, Complete Waste Retrieval from Tank S-102**
Due: 3/31/07
Status: Missed. As a result of equipment failure on March 14, 2007, retrieval operations were suspended at Tank S-102 with retrieval approximately 91% complete and approximately 423,000 gallons total waste removed. Retrieval was restarted on July 25, 2007 and halted on July 26, 2007 when an aboveground waste spill occurred. Retrieval is estimated to be approximately 93.3% complete with 433,000 gallons of total waste removed.

- **M-45-15, Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project**
Due: 6/30/11
Status: At Risk. See discussion below under "Issues". Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**
Due: 6/30/11
Status: At risk. See discussion below under "Issues".
- **M-45-15B, Embedded Milestone, Remaining Wastes have been adequately Characterized, and a Risk Assessment has been completed for residuals that remain in the tank**
Due: 6/30/11
Status: At risk. See discussion below under "Issues".
- **M-45-15C, Embedded Milestone, An update to the S-102 Component Closure Activity Plan has been submitted by DOE**
Due: 6/30/11
Status: At risk. See discussion below under "Issues".
- **M-45-15D, Embedded Milestone, if appropriate, DOE has requested an exception to waste retrieval criteria pursuant to Agreement Appendix H**
Due: 6/30/11
Status: At risk.

II. Significant Accomplishments

- Continued to operate the S-102 exhauster to reduce the volume of supernatant liquid in the tank. An October 20, 2009, video review of the tank has shown that the supernatant liquid volume is approximately 3,000 to 4,000. This is below the criteria for interim stabilization of less than 5000 gallons supernatant liquid.

III. Significant Planned Activities in the Next Six Months

- Continue to operate the S-102 exhauster. Issue interim stabilization documentation.

IV. Issues

- Retrieval of Tank 241-S-102 was not completed by TPA milestone date of March 31, 2007, due to pump failure. It is technically imprudent to attempt to accelerate retrieval of S-102, at this time, because of the rheological nature of the waste.
- In a letter dated August 15, 2006, Ecology stated that submittal of Component Closure Activity Plans, for retrieved tanks, should continue to be suspended until June 30, 2009, or within 120 days after the Final Tank Closure and Waste Management Environmental Impact Statement (TC&WM EIS) Record Of Decision (ROD) is issued, whichever is earlier. In a letter dated November 12, 2009, Ecology extended its suspension until 180 days after the issuance of the final TC&WM EIS. It is anticipated that the final TC&WM EIS will not be issued until the Spring of 2011. Submittal of the Closure Plan could not occur, then, until several months after the M-45-15 milestone is due.

Tank 241-S-112

I. Deliverables

- **M-45-03C, Complete Full-Scale Saltcake Waste Retrieval Technology Demonstration at Single-Shell Tank S-112**
Due: 6/30/05
Status: Complete.
- **M-45-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project**
Due: 6/30/11
Status: At risk. See discussion below under "Issues". Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-13A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**
Due: 12/31/07
Status: Completed (ORP letter, 07-TPD-066, dated December 21, 2007). Added by Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-13B, Embedded Milestone, Remaining Wastes have been adequately Characterized, and a Risk Assessment has been completed for residuals that remain in the tank**
Due: 12/31/07
Status: Completed (ORP letter, 07-TPD-066, dated December 21, 2007). Added by Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.

- **M-45-13C, Embedded Milestone, An update to the S-112 Component Closure Activity Plan has been submitted by DOE**
Due: 6/30/11
Status: At risk. See discussion below under "Issues".
- **M-45-13D, Embedded Milestone, if appropriate, DOE has requested an exception to waste retrieval criteria pursuant to Agreement Appendix H**
Due: 6/30/11
Status: At risk. See discussion below under "Issues".

II. Significant Accomplishments

- Ecology letter of August 28, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

III. Significant Planned Activities in the Next Six Months

- None.

IV. Issues

In a letter dated August 15, 2006, Ecology stated that submittal of Component Closure Activity Plans, for retrieved tanks, should continue to be suspended until June 30, 2009, or within 120 days after the Final Tank Closure and Waste Management Environmental Impact Statement (TC&WM EIS) Record Of Decision (ROD) is issued, whichever is earlier. In a letter dated November 12, 2009, Ecology extended its suspension until 180 days after the issuance of the final TC&WM EIS. It is anticipated that the final TC&WM EIS will not be issued until the Spring of 2011. Submittal of the Closure Plan could not occur, then, until several months after the M-45-15 milestone is due.

Interim Stabilization Consent Decree

I. Near-Term Deliverables:

D-001-00, Complete Interim Stabilization of all 29 SSTs

Due: 09/30/04

Status: Completed on March 31, 2004, with discontinuation of pumping in U-108 and subsequent consultation with Ecology staff. Interim stabilization of S-102 and S-112 is held in abeyance by third amendment to the Consent Decree. ORP's obligation to interim stabilize S-112 was satisfied upon completion of retrieval operations. Retrieval of S-102 has been impacted by the spill at this tank. An October 20, 2009, video review of the tank has shown that the supernatant liquid volume is approximately 3,000 to 4,000. This is below the criteria for interim stabilization of less than 5000 gallons supernatant liquid.

II. Significant Accomplishments:

Continued to operate the S-102 exhauster to reduce the volume of supernatant liquid in the tank.

III. Significant Planned Actions in the Next 6 Months:

Continue to operate the S-102 exhauster. Issue S-102 interim stabilization documentation.

IV. Issues

Tank S-102 retrieval not completed by milestone M-45-05A date of March 31, 2007.

In Tank Characterization and Summary

For the period from November 1 – November 30, 2009:

I. Accomplishments:

- Nothing significant to report.

II. Planned Action within the next Six Months:

- Tank Sampling
 - Tank 241-AZ-102 liquid grab samples scheduled for January 2010.
 - Tank 241-AP-107 evaporator grab samples scheduled for December 2009.
 - Tank 241-AY-101 liquid grab samples scheduled for December 2009.
 - Tank 241-AN-101 mid C-104 retrieval scheduled for January 2010.
 - Tank 241-AN-101 post C-104 retrieval scheduled for May 2010.
 - Tank 241-AZ-101 corrosion mitigation liquid grabs scheduled for January 2010.
 - Tank 241-AN-103 corrosion mitigation liquid grabs scheduled for March 2010.
 - Tank 241-AN-104 corrosion mitigation liquid grabs scheduled for February 2010.
 - Tank 241-AN-107 corrosion mitigation liquid grabs scheduled for February 2010.
- BBI Updates
 - Five tank updates are planned for the first quarter of fiscal year 2010.
 - The update of one of the five tanks is complete.
 - All updates have been started.
- Data Quality Objectives (DQO)
 - Complete revision 4 of the SST Component Closure DQO in December 2009.
 - Complete revision 0 of the Interim Tank Farm Barrier DQO in December 2009.
 - Complete revision 0 of the Mission Analysis/Strategic Planning DQO in February 2010.

III. Issues:

- None.

Milestone M-47-00, Complete Work Necessary to Support Acquisition and Phase I Operations of Hanford Site High-Level Radioactive Waste Treatment, Storage, and Disposal Facilities

I. Near-Term Deliverables:

- **M-47-03A, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial high-level waste feed tank**
Due: 03/31/09
Status: Missed.
- **M-47-06, Complete negotiation of additional agreement requirements (milestones, target dates, and associated language) governing work necessary to support completion of treatment complex Phase I operations by 2018**
Due: 06/30/10
Status: Negotiations are not yet underway.

II. Significant Accomplishments:

- None.

III. Significant Planned Actions in the Next Six Months:

- None.

IV. Near-term Actions Needed by DOE or Ecology:

- None.

V. Issues:

- Nothing to report.

242-A Evaporator Status (previously reported under Milestone M-48, which has been closed out)

242-A Campaign strategy:

- FY10. 1 campaign using AW-106 as the feed and slurry tank. This waste requires 2 passes to achieve forecast waste volume reduction.
- FY11. 2 campaigns with feed from AP-107 and AZ-102. Slurry tanks will be AP-104/AP-107.
- FY12. 1 campaign with feed from AY-101 and slurry to AP-107. This campaign replaces a Cold Run in the baseline.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY09	09-01	AP-101/ AP-105	AP-104	Entered OPERATION MODE on 3/17/09 and returned to SHUTDOWN MODE on 6/25/09. Campaign 09-01/09-02
FY09	09-02	AP-101/ AP-105	AP-104/ AP-101	processed approximately 2.1mgal of DST waste achieving 948kgals (45%) waste volume reduction.
FY10	10-01	AW-106	AW-106	Planned start March 2010.
FY11	11-01	AP-107	AP-104	Planned start March 2011. Campaigns 11-01 and 11-02 to be performed back-
FY11	11-02	AZ-102	AP-104/ AP-107	to-back
FY12	12-01	AY-101	AP-017	Planned start March 2012.

Milestone M-90-00, Complete Acquisition of New Facilities, Modifications of Existing facilities, and/or Modifications of Planned Facilities, as Necessary for Storage of Hanford Site Immobilized High Level Waste (IHLW), Immobilized Low Activity Waste (ILAW), and Disposal of ILAW, and M-20-00, Submit Part B Permit Applications

I. Near-Term Deliverables:

- **M-90-10, Ready to Accept Placement of ILAW Waste in ILAW Disposal Facility**
Due: 8/31/08
Status: Complete.
- **M-90-11, Complete Canister Storage Facility Construction**
Due: 8/31/10
Status: To Be Missed. To be renegotiated to align with WTP schedule.

II. Significant Accomplishments:

- None to report.

III. Significant Planned Actions in the Next Six Months:

- None to report.

IV. Issues

- None to report.

Milestone M-62-00, Complete Pretreatment Processing and Vitrification of Hanford High-Level (HLW) and Low-Activity (LAW) Tank Wastes

I. Near-Term Deliverables:

- **M-62-00, Complete Pretreatment Processing and Vitrification of Hanford High-Level (HLW) and Low-Activity (LAW) Tank Wastes**
Due: 12/31/2028
Status: To Be Missed.
- **M-62-00A, Complete WTP Pretreatment Processing and Vitrification of Hanford HLW and LAW Tank Wastes**
Due: 02/28/2018
Status: To Be Missed.
- **M-62-01R, Submit Semi-Annual Project Compliance Report**
Due: 01/31/2009
Status: Complete.
- **M-62-01S, Submit Semi-Annual Project Compliance Report**
Due: 07/31/2009
Status: Complete.
- **M-62-07B, Complete Assembly of Low Activity Waste Vitrification Facility Melter #1 So That It Is Ready for Transport and Installation in the LAW Vitrification Building (BNI Baseline Schedule Activity 4DL321A200 as Part of DOE Contract No. DEAC27-01RV14136), and Complete Schedule Activity ID 4DH46102A2 – Move #1 Melter into the High Level Waste Vitrification Facility**
Due: 12/31/2007
Status: Missed.
- **M-62-08, Submittal of Hanford Tank Waste Supplement Treatment Technologies Report, Draft Hanford Tank Waste Treatment Baseline and Draft Negotiations Agreement in Principle**
Due: 06/30/2006
Status: Missed.
- **M-62-09, Start Cold Commissioning – Waste Treatment Plant**
Due: 02/28/2009
Status: To Be Missed (based on current DOE Baseline planning).

- **M-62-10, Complete Hot Commissioning – Waste Treatment Plant**
Due: 01/31/2011
Status: To Be Missed (based on current DOE Baseline planning).

- **M-62-11, Submit a Final Hanford Tank Waste Treatment Baseline**
Due: 06/30/2007
Status: Missed.

II. Significant Accomplishments:

- None to report.

III. Significant Planned Actions in the Next Six Months:

- None to report.

IV. Issues:

- None.

Hanford Waste Treatment and Immobilization Plant (WTP) Project

There are about 3,050 FTE equivalent contractor [Bechtel National Inc. (BNI)] and subcontractor personnel working on the WTP Project, with about 800 craft, 400 non-manual, and about 285 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through October 2009 is 51%, design and engineering is 77% complete, and construction is 47% complete.

The overall WTP Project cost and schedule performance was negative in October, (\$0.9M) and (\$4.5M) respectively. The monthly cost performance was positive for construction; however, the cost and schedule performance for Engineering, Plant Equipment, and Plant Materials was mostly negative.

Following is the status through the end of November for current project issues:

Material at Risk (MAR)

Based on recommendations by the Material at Risk (MAR) team chartered in December 2008, ORP and BNI have evaluated team recommendations that could result in reclassification of systems that would allow removing unnecessary complexity in the control strategy, while still maintaining safety commensurate to the risk. The MAR Integrated Change Package (ICP) consists of a Preliminary Documented Safety Analysis (PDSA) Addendum, page changes to Chapters 2, 3, 4, and 5 referencing the addendum and proposed changes to the Safety Requirement Document (SRD) design criteria for Hydrogen in Piping and Ancillary Vessels (HPAV). The ICP was submitted by BNI on October 21, 2009, and it was amended on October 29, 2009 to address DOE comments. The Safety Evaluation Report (SER) was approved by the ORP Manager on October 31, 2009, with four Conditions of Acceptance (COA). The four COAs address the following areas: (1) Define HPAV design methods and criteria; (2) Revising the technical documents supporting the ICP to address post-SER approval comments; (3) Address uncertainties in analysis assumptions raised by DOE but not affecting control strategies; and (4) Seismic design of safety significant piping in Black Cells and Hot Cells. BNI is preparing a schedule to address activities necessary to close the COAs by May 1, 2010.

Hydrogen in Piping and Ancillary Vessels (HPAV)

Based on recommendations by the HPAV team chartered in February 2009, ORP and BNI have evaluated team recommendations that could result in removing unnecessary complexity in the control strategy, while still maintaining safety commensurate to the risk. Much progress has been made in understanding the new information gained from 2008 HPAV testing, including the conclusion that piping 4 inches and less will not fragment eliminating secondary effects of many components. Additional testing in 2009 to evaluate the impact of HPAV for piping sizes larger than 4-inch, and analyzing minimum detonable gas volumes and geometries is in progress and scheduled to complete by the end of December 2009. In addition, confirmatory testing by California Institute of Technology is being conducted through February 2010, with a report anticipated by the end of March 2010.

DOE-STD-1066

BNI developed and submitted to ORP an alternative design option that provides comparable safety and mission protection as allowed by DOE-STD-1066, and in accordance with DOE Order 420.1B. The alternate approach does not provide all of the fire protection features prescribed in Section 14 of DOE-STD-1066, but does provide multiple levels of fire protection features that adequately protect final HEPA filters from fires.

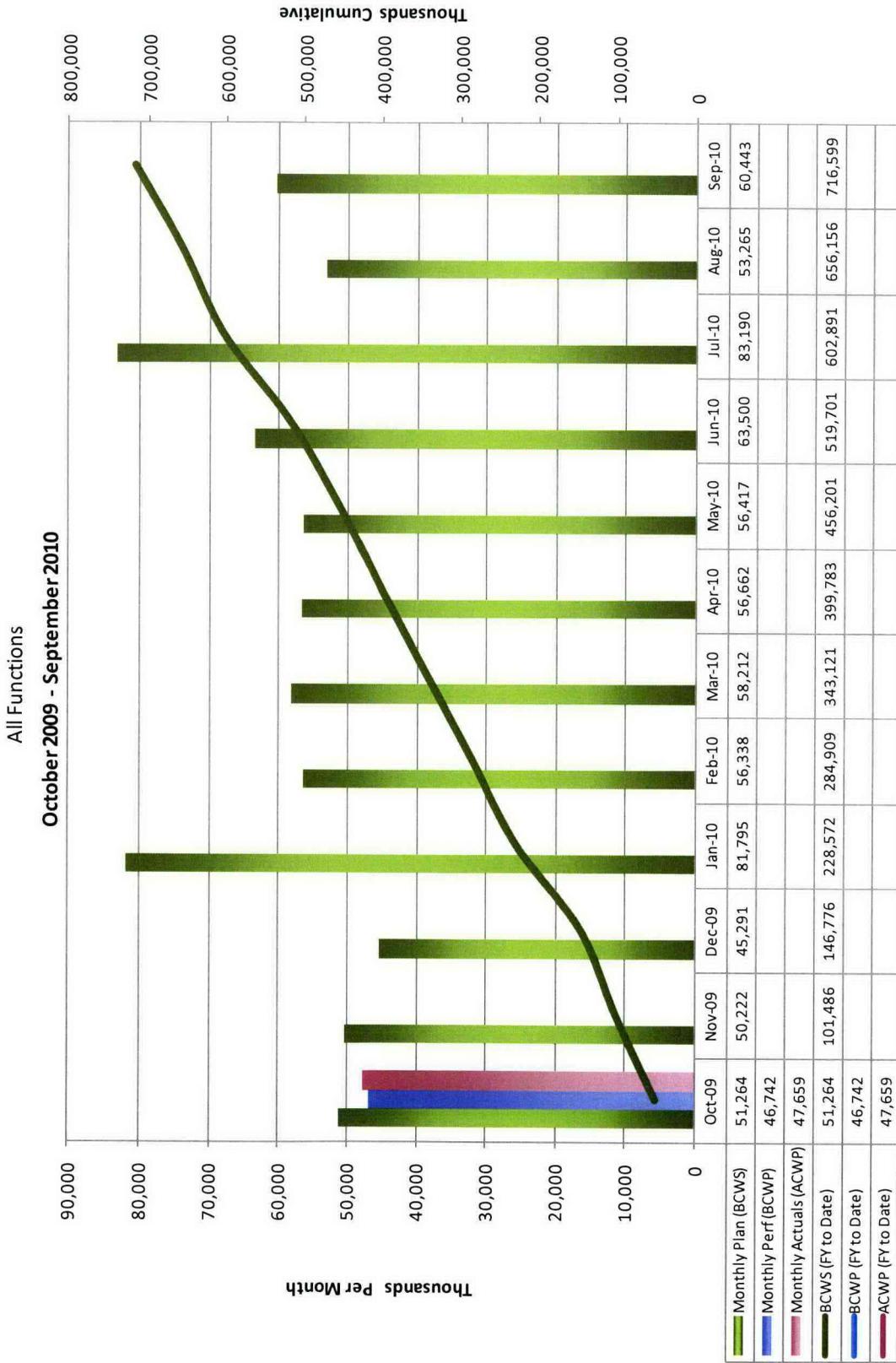
The alternate approach was identified by ORP as a gap in implementation of DNFSB Recommendation 2004-2, Active Confinement Ventilation Systems. DOE-EM accepted the gap analysis in July of 2009. ORP then directed BNI to implement the alternate approach in the authorization basis documents and the design. BNI has completed its implementation of the alternate approach in the Authorization Basis. ORP will review implementation by March 2010.

Vendor Commercial Grade Dedication (CGD) Issue Extent of Condition (EOC) Review

An evaluation of the BNI vendor commercial grade dedication program (CGD) revealed that CGD requirements were not adequately communicated by BNI suppliers to their sub-suppliers. BNI placed all deliveries on hold and performed a systematic evaluation of all suppliers and their sub-suppliers.

Of the 56 Active Vendors and 31 Inactive Vendors one EOC review of the last Inactive Vendor remains. By the end of November, the full extent of dedication concerns had been identified, and a strategy of interim dispositions of non-compliances was used to support near-term construction needs. There were no impacts to construction, and ORP continues to closely monitor BNI's efforts to identify vendor CGD problems and address WTP indeterminate quality materials. WTP staff is completing efforts to close the noncompliance reports on all commodities used during the last 9 years of construction, correcting the perceived deficiencies in dedication programs of its suppliers, and clearing questions of dedication from equipment. To date, there have been no reports of failures for any materials tested during the extensive sampling and testing of materials.

WTP – Fiscal Year To-Date Performance



Pretreatment (PT) Status for November 2009 (September 2009 EVM Data)

The PT Facility will separate radioactive tank waste into high-level waste (HLW) and low-activity waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Overall facility percent complete is 47%, engineering/design is 77% complete, and construction is 27% complete.

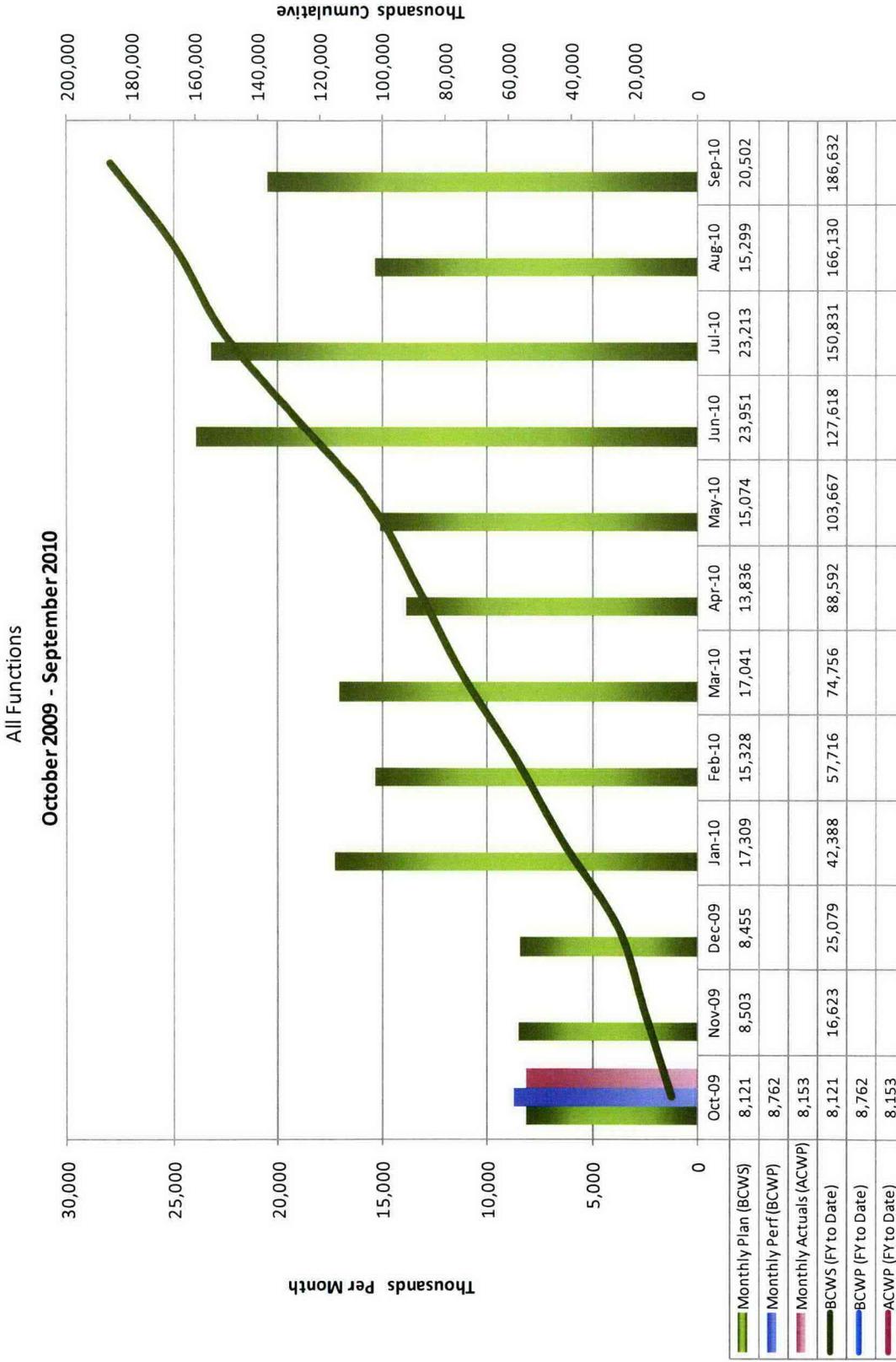
Construction installations for the month include 610 cubic yards (CY) of concrete, 219 tons of rebar, 49,899 lbs of embeds and over 81 tons of tier-3 structural steel. Due to concerns regarding Vendor Commercial Grade Dedication (VCGD), construction faced additional material verifications before installation, which had minor impact on placements. The first concrete slab for the 77 foot elevation was placed on October 30th, representing a major step forward in facility construction. By enclosing portions of the 56 foot elevation, the next phase of commodity installation can begin. In addition, it establishes a platform to initiate structural steel and wall fabrication above the 77 foot elevation. Rebar and embed installation continues at the 77 foot elevation and two additional slabs are scheduled for placement in November. Structural steel installations and concrete placements are ongoing at the 56-ft elevation, and steel erection in Zone 6 is underway ten months ahead of the scheduled start date. Black Cell piping installation has restarted in Planning Area 01-D ahead of schedule. Installation of HVAC ductwork, fabrication of rebar curtains, erection of scaffolding, and the installation of grounding are key on-going efforts.

Two hundred fifty-eight piping isometric drawings were issued this month. Current engineering efforts are focused on planning areas with critical path schedules to minimize the impacts of MAR/HPAV implementation. BNI engineering was authorized to continue design activities for MAR/HPAV components until November 30 without an increase in the amount of currently authorized funding. Additionally, conceptual designs for jumper/framing in the hot cell have been advanced to facilitate system integration with the piping and equipment design and reduce procurement risks.

Closure of the EFRT M3 issue did not occur prior to the end of FY2009 as previously reported and is currently scheduled for April 2010. Early tests indicated that some of the vessels may need modifications and test plans to identify specific modification requirements are being reviewed. BNI conducted an engineering analysis to identify potential resolutions for the

reboiler condensate contamination issue and delivered the proposed design solution to ORP engineering personnel for review. ORP assessment of the lifecycle operation and maintenance for evaporator vessel and rectifier internals is continuing. BNI developed a risk mitigation plan for solids formation in the CXP system and provided to design improvements to ORP two options in November 2009 for a decision by ORP in December 2009. Both the options mitigate the issue of solids formation in the Ion Exchange column and meets the throughput requirements. However, the more complex and higher cost option provides a life-cycle benefit to reducing the sodium addition, and thereby reduces the number of LAW canisters.

Pretreatment Facility - Fiscal Year To-Date Performance



High-Level Waste (HLW) Facility Status for November 2009 (Oct 09 EVM Data)

Efforts to relocate the Secondary C5V filters from the Filter Cave are continuing. The secondary filters are being moved as one of the conditions that demonstrates a comparable level of safety as delineated in DOE-STD-1066 Section 14, *Nuclear Filter Plenum Fire Protection*. Relocation allows the safe change of the filters manually if the remote-changed primary filters become loaded and/or destroyed by a fire in the facility. The Filter Cave components, housings, dampers, support steel, and associated ducting must be placed via crane "over the top" before the structural steel and decking installation activities for overhead slab (slab 3027 at the +40' elevation) may be initiated in May 2012. The scheduled activities associated with the relocation of the secondary C5V filters have 6 days of total float. In order to trace the multiple, concurrent design engineering- procurement-construction activities and maintain the schedule, the HLW Team uses a detailed Level-5 schedule, which is reviewed on a weekly basis.

For engineering, the Civil, Structural, and Architectural (CSA) group achieved a major milestone in November. All of the remaining column and girder schedules and details were completed, allowing the release of over 4,500 tons of steel for fabrication by the vendor. This completes the design of all of the facility's main structural steel. The piping isometric drawing production continues to perform ahead of schedule. During November, 2,984 lineal feet of piping was designed and released. Plant Design completed the remaining Release 4 penetration spacing verifications, closing the elevation +14' to +37' scope of work. In addition, 20 additional joggle fabrication drawings for elevation +37' to +58' were released to the vendor for fabrication.

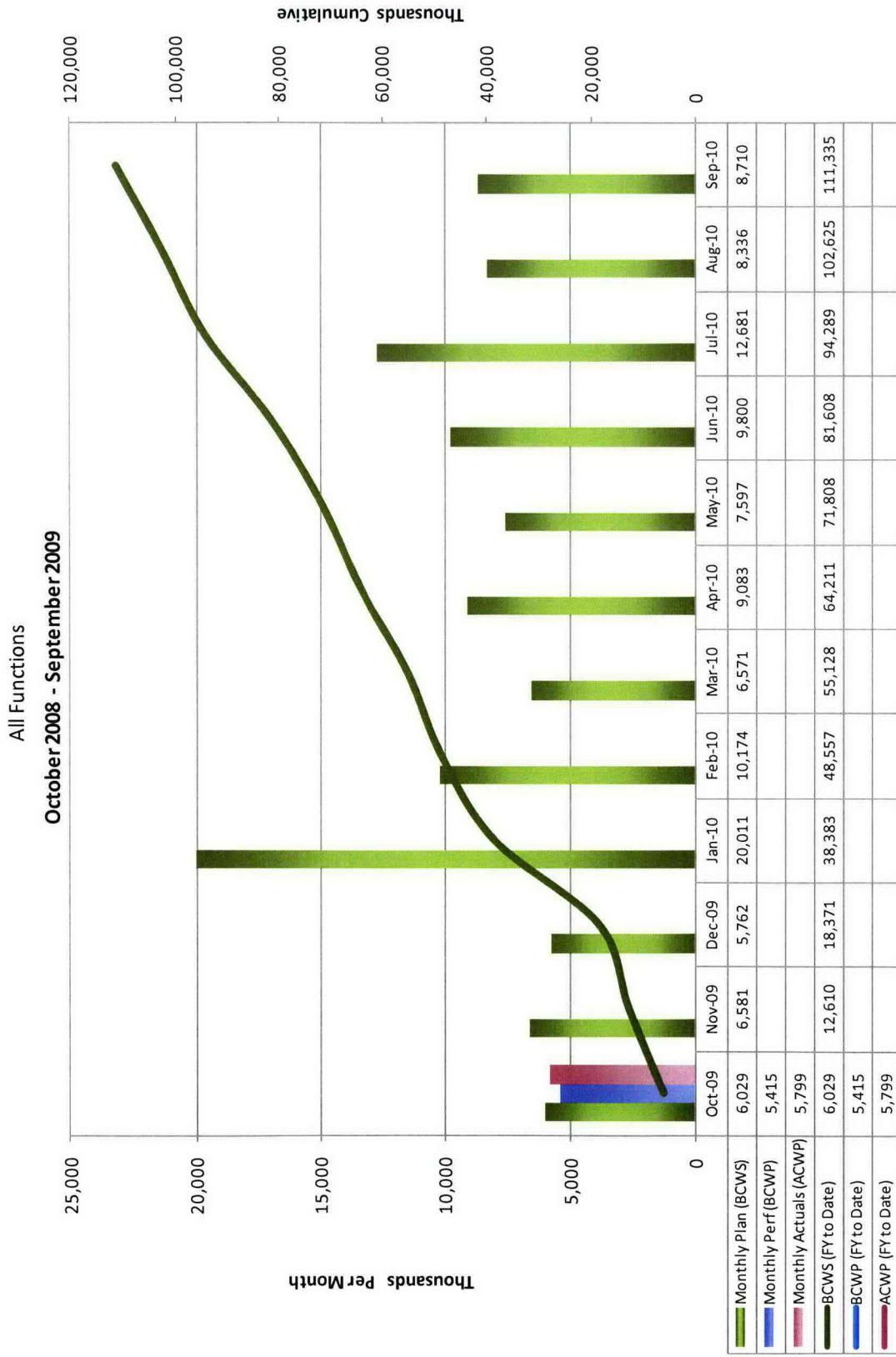
Construction forces placed a total of 624 cubic yards (CY) of concrete in November. One major accomplishment achieved in November was the placement of the last remaining concrete wall at the 0' to +14' elevation, Wall 1147 at the south end of Melter Cave #1. Slabs 2018, 2018A, and 2020 were placed at the +14' elevation along the south perimeter of the facility. Wall 2113, the remaining wall for the Filter Cave crane maintenance area was completed late in the month at the +14' elevation. The five placements completed in November exceeded the two placements forecasted in for the period. Construction continues to maintain their production goals, and have completed 24 placements in the last five months, July through November. In December, construction expects to complete four concrete placements, three more than scheduled in the baseline.

- At the -21' elevation, Construction crews continued: the installation of cable tray and large and small bore piping; aligning and installing bogie rails and supports in the Canister Storage Transfer and Cask Handling tunnels; the application of coatings; and the installation of liner plate.
- At the +0' elevation, crews continued to: install slab and wall rebar, embeds, wall forms, structural steel and decking; tuning grillage; and installing cable tray supports and conduit.
- At the +14' elevation, crews continued to: erect structural steel and decking; install wall and slab rebar; and install piping modules, embeds, joggles and formwork for multiple walls and slabs.
- At the +37' elevation, crews began the installation of structural steel and decking for slabs 3001, 3002 and 3003 at the north end of the annex.

Near-Term *Proposed* Consent Decree Milestones:

Project	Description	Specified Completion Date	Current Schedule Date
A-20 Interim	Complete Construction of Structural Steel to Elevation 14' in HLW Facility	12/31/2010	2/22/2010

High-Level Waste Facility - Fiscal Year To-Date Performance



Low-Activity Waste (LAW) Facility – Nov. 2009 Accomplishments (Sept. EVM Data)

The LAW Facility will vitrify low-activity waste from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at an average daily rate of 30 metric tons, and placed in stainless-steel containers that will be disposed on site in the Integrated Disposal Facility. Overall facility percent complete is 67%, design is 91%, and construction is 56%.

In the month of November, Construction completed setting the high-efficiency particulate air filter units on elevation +48' and installing girt supports for the import bay overhead doors and supports for the import bay roll-up coiling doors. Construction continued: installing fans for the C3V system, piping and hangers, conduit, cable tray, gypsum wallboard, perimeter sealants, panels and transformers and metal-stud framing.

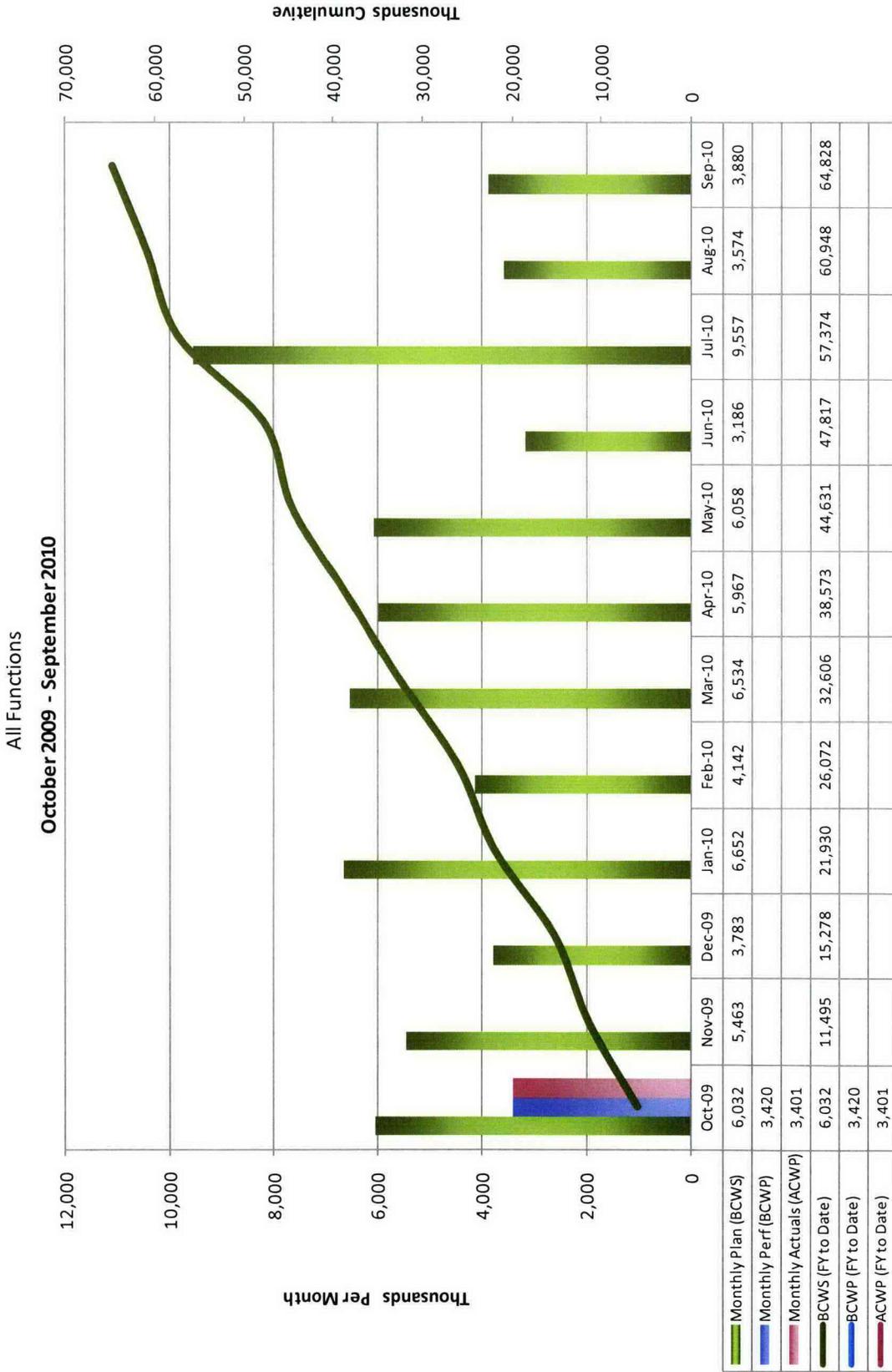
BNI Engineering continues to confirm calculations and issue drawings for completion of design and in support of construction.

Resolution of technical issue for excessive heat retention in some Melter Pour Cave equipment continues. A high temperature condition has been calculated to occur in certain container handling equipment that could significantly reduce the yield stress of these items.

Computational Fluid Dynamics calculation results will be analyzed for equipment stresses by a subcontractor and if a potential problem remains, design changes will be made to rectify the issue. Expected completion date of the analysis is January 2010.

Upcoming significant planned accomplishments for December include confirmation of Plant Cooling Water and LAW Domestic Water designs resulting in risk reduction.

Low-Activity Waste Facility - Fiscal Year To-Date Performance



Analytical Laboratory (LAB) – Nov 2009 Accomplishments (Oct 09 EVM Data)

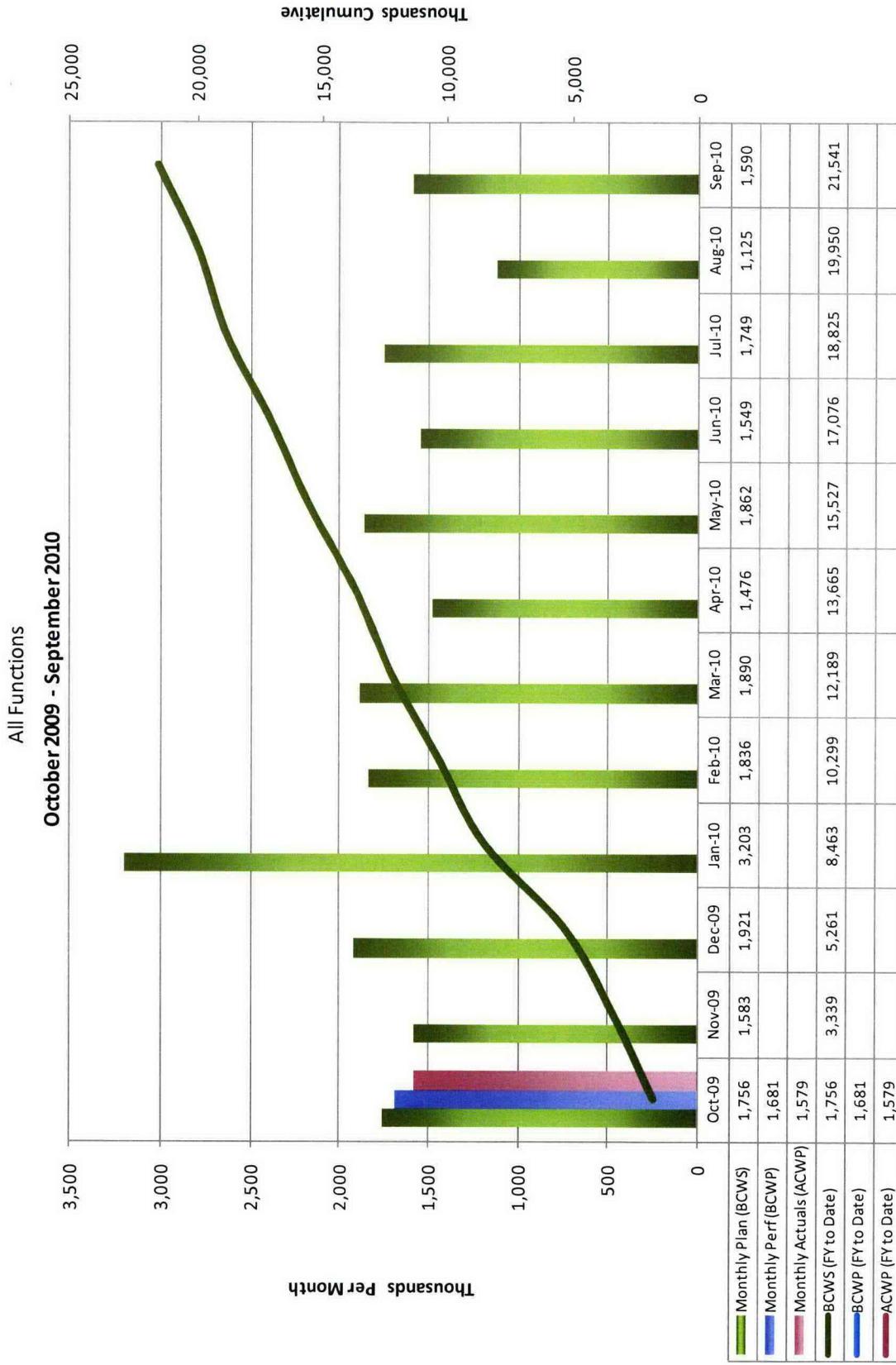
The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. Overall facility complete for LAB is 47%, design is 79%, and construction is 56%.

LAB engineering does not currently have any major technical issues and BNI continues to focus on confirmation of design. The engineering SPI and CPI for October were 0.96 and 1.06, respectively. ORP is currently working with BNI to resolve the issue for use of combustible insulation in the LAB roof assembly. BNI plans to meet with ORP on December 4 to discuss fire protection, code compliance, and the proposed path forward.

During November, Construction completed installing light fixtures in the motor control center and trimming partition walls inside the hot cell. Construction continued installing piping, metal-stud framing, gypsum wall board, conduit, installing/setting electrical equipment, ductwork and supports, and steam piping.

Factory acceptance testing of the hotcell waste transfer system was completed during the month of November. Shipment for the hotcell waste transfer system from the vendor is expected to occur the second week of December.

Analytical Laboratory - Fiscal Year To-Date Performance



Balance of Facilities (BOF) – Nov 2009 Accomplishments (Oct 09 EVM Data)

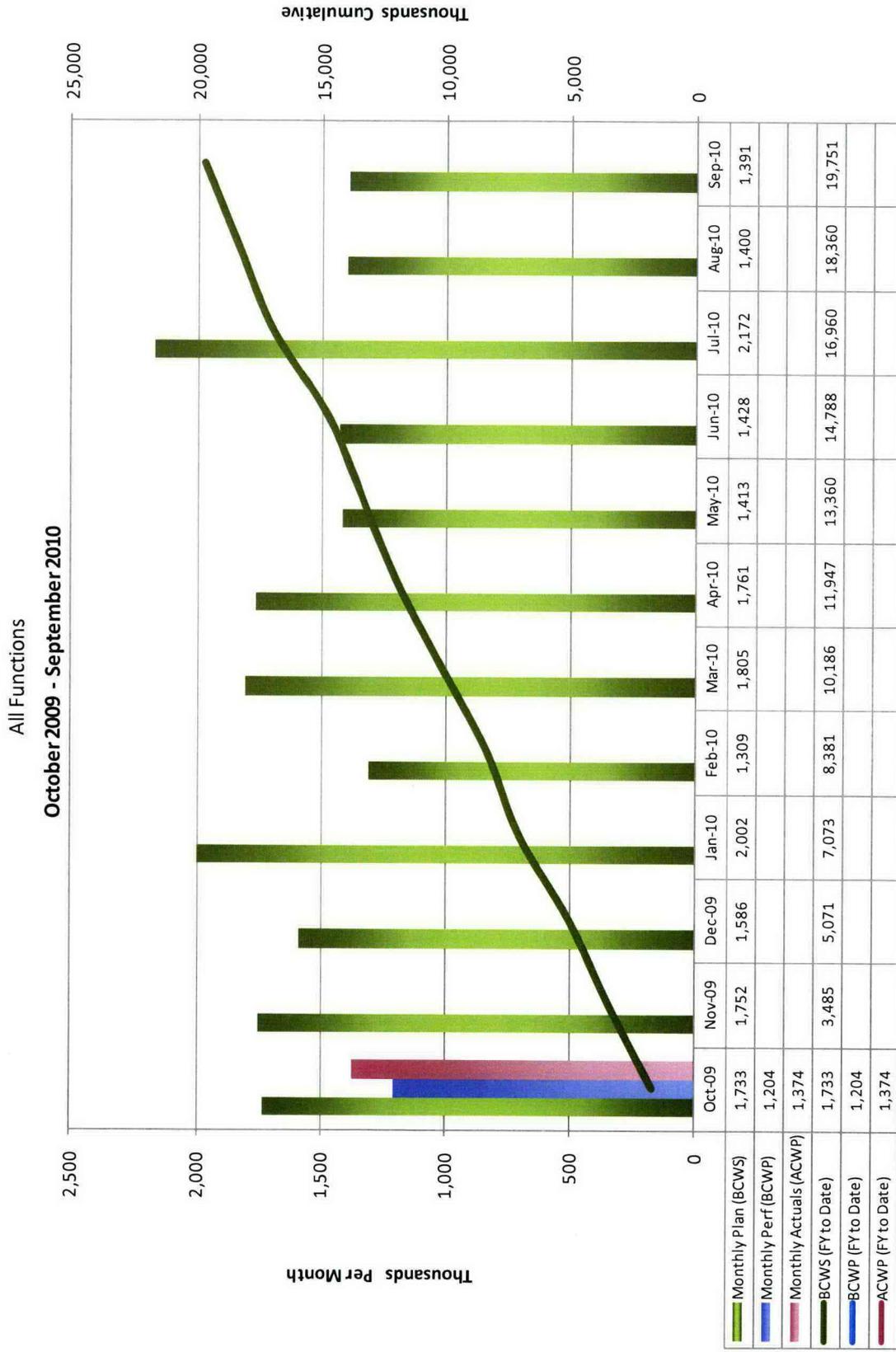
BOF provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. Overall facility percent complete for BOF is 52%, design/engineering is 78%, and construction is 55%.

During November, construction began installing conduit, terminations, and electrical grounding at the non-dangerous, non-radioactive effluent facility. Construction continued installing: conduit and fire detection equipment at the Chiller Compressor Plant, conduit, instrumentation, and skid piping at the water treatment building, drip shield in the Switchgear building, fire alarm/detection system at the warehouse, and erecting scaffolding at the glass former blend building.

BNI Engineering continues to confirm calculations and issue drawings for completion of design and in support of construction. Planned engineering accomplishments for the next 30 days are confirmation of the plant service air design. In late November BNI issued engineering specifications for the emergency diesel generator and scheduled pre-qualification interviews with vendors. Additionally, BNI selected the preferred strategy for protecting the EDGs during an ashfall event. Construction complete for emergency diesel generator facility is the critical path for completion of BOF.

On December 4, ORP, RL, and Mission Support Alliance personnel will meet with a representative from the Federal Energy Mgmt Program (FEMP) to discuss the Energy Savings Performance Contract (ESPC) process and possible energy savings that could be realized within the WTP. Possible approaches include providing alternative fuel/energy to the WTP to replace the use of 45,000 gal of diesel fuel per day and identifying potential alternate energy sources.

Balance of Facilities - Fiscal Year To-Date Performance

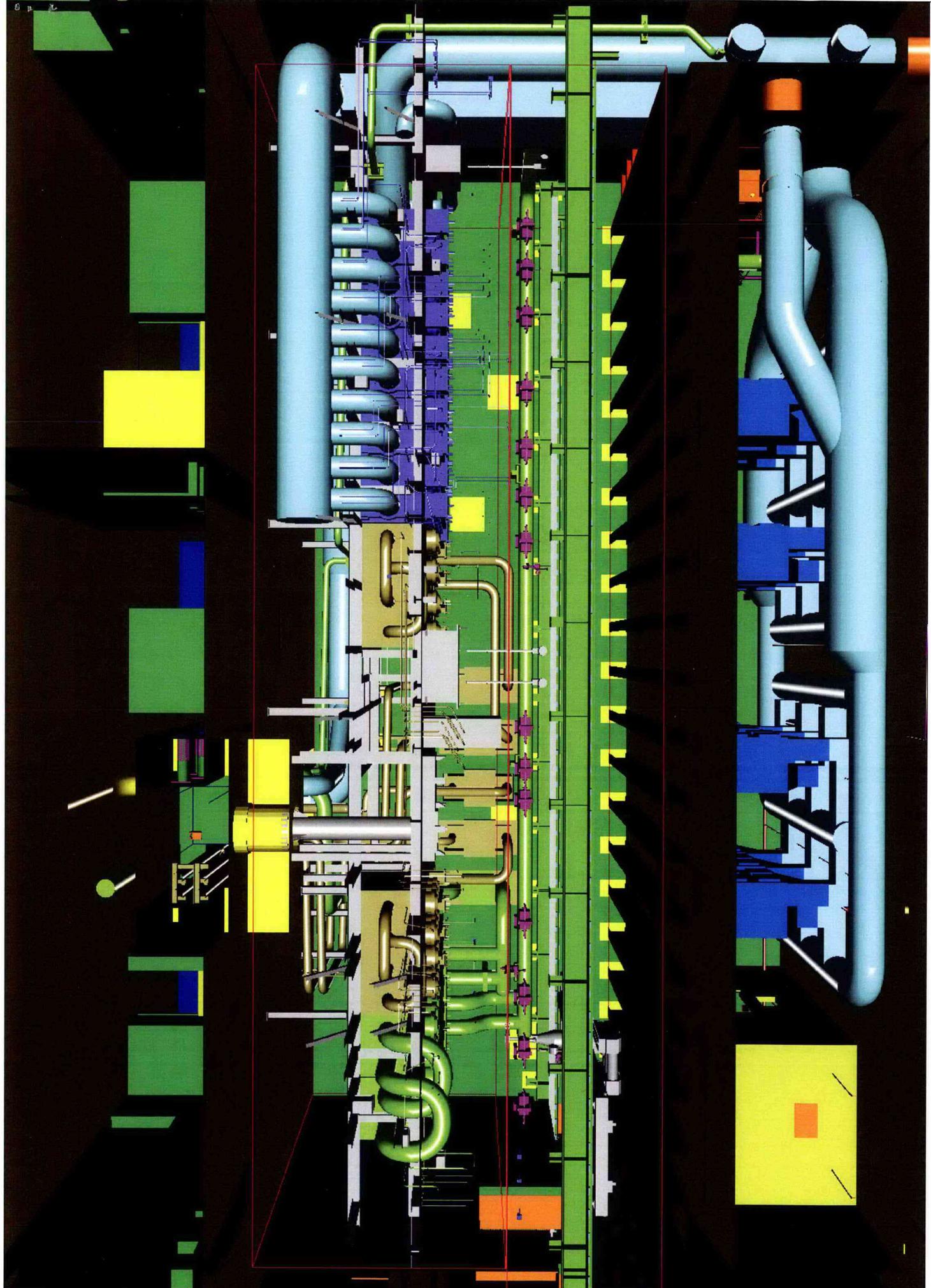


Waste Treatment Plant Project - Percent Complete Status Through October 2009									
(Dollars - Millions)	Overall Facility Percent Complete Allocated Dollars			Design/Engineering Unallocated Dollars			Construction Unallocated Dollars		
	Budget at Completion (BAC)	Budgeted Cost of Work Performed (BCWP)	% Complete	Budget at Completion (BAC)	Budgeted Cost of Work Performed (BCWP)	% Complete	Budget at Completion (BAC)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities									
Low-Activity Waste	1,674.4	1,120.2	67%	205.8	187.1	91%	292.9	164.1	56%
Analytical Lab	632.3	298.5	47%	48.6	38.4	79%	85.8	48.1	56%
Balance of Facilities	986.6	510.6	52%	68.1	53.2	78%	216.7	119.4	55%
High-Level Waste	2,573.0	1,233.8	48%	314.3	258.5	82%	508.0	117.3	23%
Pretreatment	4,071.6	1,924.5	47%	577.0	442.5	77%	817.5	226.7	28%
Shared Services	incl. above	incl. above	incl. above	1,060.6	774.4	73%	1,335.8	855.1	64%
Undistributed Budget	9.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	9,946.9	5,087.6	51%	2,274.4	1,754.1	77%	3,256.7	1,530.7	47%

Source: WTP Contract Performance Report

Note: Starting with the June 2009 report, facility construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BNI's elimination of WBS 1.08, Plant Wide EPCC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.90, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values.

WTP Project - KEY COMMODITY QUANTITY PROGRESS				
Commodity	Unit of Measure	Current Forecast at Completion Quantity	Installed through September 2009	Percent Complete
Concrete	1000 cy	262.30	190.43	72.6%
Structural Steel	1 ton	38,586	14,314	37.1%
Piping (in buildings)	1000 lf	901.73	162.82	18.1%
Piping (underground)	1000 lf	116.01	95.67	82.5%
HVAC Duct	1000 lbs	4,298.96	1,034.96	24.1%
Cable Tray	1000 lf	97.79	20.47	20.9%
Conduit (in buildings)	1000 lf	1,001.64	106.28	10.6%
Conduit (underground)	1000 lf	192.91	176.16	91.3%
Cable and Wire	1000 lf	4,934.77	251.22	5.1%



TPA Project Managers Meeting
12-15-09

Woody Russell

DAN McDONALD

Robbie Biyani

Fred Hidden

Gary Olsen

Jeff Trent

P JOHN MARTELL

Delmar Noyes

Wahed Abdul